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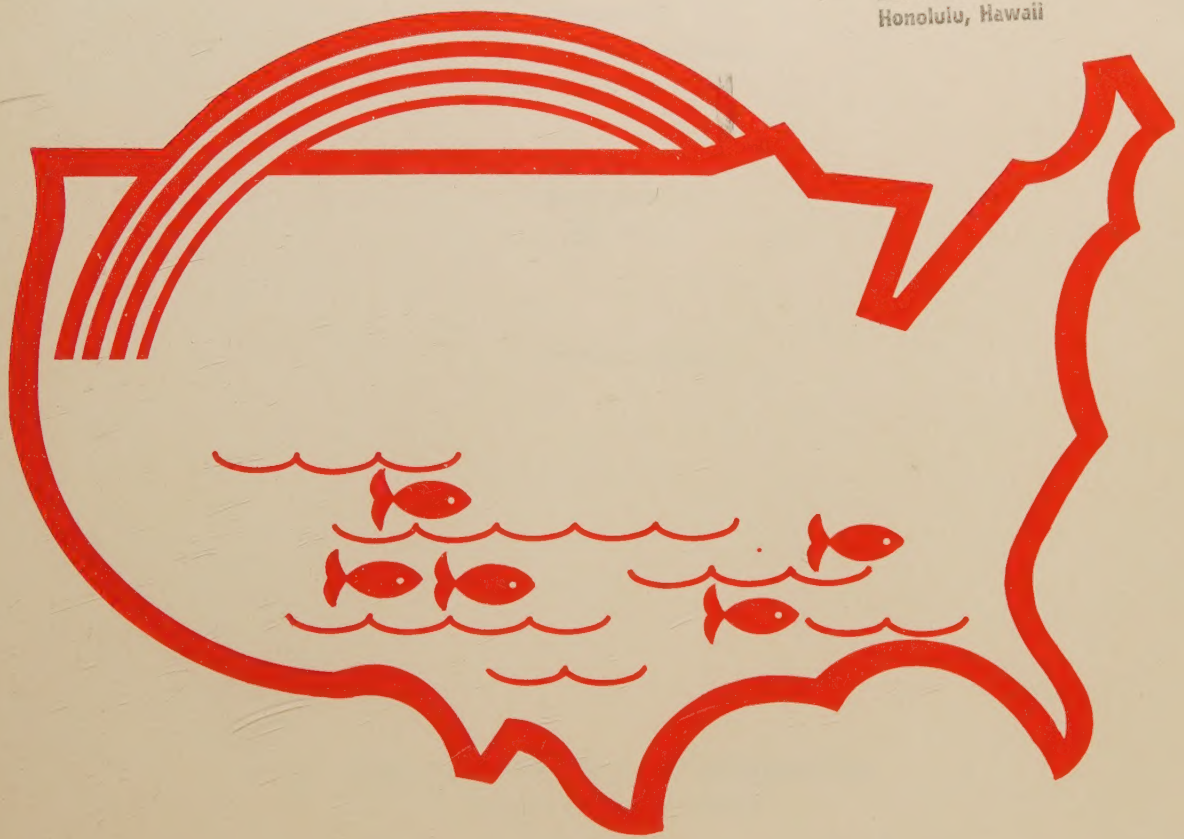

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Current Fishery Statistics No. 8200

# Fisheries of the United States, 1981

Prepared by
Resource Statistics Division
B.G. Thompson, Chief

Washington, D.C.
April 1982

Second Printing

**U.S. DEPARTMENT OF COMMERCE**
**Malcolm Baldrige, Secretary**

**National Oceanic and Atmospheric Administration**
John V. Byrne, Administrator

National Marine Fisheries Service
William G. Gordon, Assistant Administrator for Fisheries

# PREFACE

*FISHERIES OF THE UNITED STATES, 1981*

This publication is a preliminary report for 1981 on commercial and marine recreational fisheries of the United States and foreign catches in the U.S. Fishery Conservation Zone (FCZ). This annual report provides timely answers to frequently asked questions for the previous year. All data in this publication are consistent with the provisions of the Federal Reports Act of 1942.

## MARINE RECREATIONAL FISHING

A section of this publication briefly describes the background and methodology of the Marine Recreational Fishery Statistics Surveys. The results presented on recreational catch by species, number, weight, area and mode of fishing, and number of fishermen and trips are taken from the 1979 survey report for the Atlantic and Gulf coasts.

## SOURCES OF DATA

Information in this report came from many sources. Field offices of the National Marine Fisheries Service (NMFS), in cooperation with various States, compiled and collected data on U.S. commercial landings and processed fishery products. The NMFS Field Offices compiled data on the foreign catch from reports by designated foreign officials. The NMFS Resource Statistics Division in Washington, D.C., tabulated and prepared the data for publication. Sources of other data appearing in this publication are: U.S. Bureau of the Census, U.S. Bureau of Labor Statistics, U.S. Coast Guard, U.S. Customs Service, U.S. Department of the Interior, U.S. Department of Agriculture, Food and Agriculture Organization (FAO) of the United Nations, and the countries fishing in the U.S. FCZ.

## PRELIMINARY AND FINAL DATA

Data on U.S. commercial landings, foreign catches, employment, prices, and production of processed products are preliminary for 1981. Final data will be published in Fishery Statistics of the United States. Publication of monthly and annual state landings bulletins has been discontinued.

## UNITS OF QUANTITY AND VALUE

As in past issues of this publication, the units of quantity and value are defined as follows: U.S. landings and foreign catch are shown in round weight (mollusk-shells excluded) unless otherwise noted; quantities shown for U.S. imports and exports are in product weight, as reported by the U.S. Bureau of the Census, unless otherwise noted; the value of the U.S. domestic catch is exvessel (see Glossary); the value for U.S. imports is generally the market value in the foreign (exporting) country and, therefore, excludes U.S. import duties, freight charges from the foreign country to the United States, and insurance; the value for exports is generally the value at the U.S. port of export, based on the selling price, including inland freight, insurance, and other charges.

## SUGGESTIONS

The Resource Statistics Division wishes to provide the kinds of data sought by users of fishery statistics, and welcomes any comments or suggestions that will improve this publication.

Address all comments or questions to:

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National Marine Fisheries Service, NOAA
Washington, DC 20235
202-634-7366

# ACKNOWLEDGEMENT

The Resource Statistics Division of NMFS takes this opportunity to thank all those States, members of industry, and foreign nations who provided the data that made this publication possible.

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Members of the Washington, D.C., Resource Statistics Division who helped with this publication were: Wenona Crews, Margret Dancy, David Deuel, Donald FitzGibbon, Deborah Hogans, Mark Holliday, Willie Mae Holloway, Margaret Nicholson, Barbara O'Bannon, Renay Phillips, Edith Poetzschke, Anne Rinn, Robert Rosette, Richard Schween, Malon Scogin, B. G. Thompson, Frederick Wall, Michael Williams, and Lelia Wise.

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# REVIEW

U.S. LANDINGS. Commercial landings (edible and industrial) by U.S. fishermen at ports in the 50 States were 6.0 billion pounds valued at $2.4 billion in 1981, down 8 percent in quantity but up 7 percent in value compared with 1980. These were the lowest U.S. landings since 1977 (5.2 billion pounds). In 1981, increased landings of anchovies, clams, cods, Pacific mackerel, rockfishes, salmon, and squid were offset with declines in other major species such as crabs, flounders, menhaden, Atlantic sea herring, and tuna. Prices in 1981 of most edible fish and shellfish increased slightly. The average exvessel price per pound was 40 cents in 1981 compared with 35 cents in 1980.

Commercial catches by U.S. fishermen at ports outside the 50 States or transferred in the U.S. fishery conservation zone (FCZ) onto foreign vessels (joint ventures) were an additional 473.5 million pounds valued at $129.8 million. This was an increase of 85 percent in quantity and 27 percent in value when compared with 1980. Most of these landings consisted of tuna landed at canneries in Puerto Rico and groundfish transferred to foreign vessels.

Edible fish and shellfish landings in the 50 States were 3.5 billion pounds in 1981, down 3 percent compared with 1980. Landings of salmon increased, but there were declines in crab, flounder, and tuna landings. In 1981, domestic production was 53 percent and imports 47 percent of the total U.S. supply.

Landings for reduction and other industrial purposes by U.S. fishermen in the 50 States were 2.4 billion pounds in 1981, 14 percent less than 1980. The decrease is attributed to small catches of menhaden, the dominant industrial fish, for the second year in a row.

FOREIGN CATCH IN U.S. FCZ. The foreign catch of fish (excluding tunas) and shellfish in the U.S. fishery conservation zone (FCZ) was 1.7 million metric tons (3.6 billion pounds) in 1981, 2 percent higher than in 1980 and 10 percent below the average for the 5 preceding years. As in other years, the FCZ off Alaska supplied by far the largest share of the foreign catch (91 percent), followed by the North Atlantic (5 percent); Washington, Oregon, and California (4 percent); and Hawaii and the Pacific islands (less than one tenth of 1 percent).

Alaska pollock comprised 68 percent of the foreign catch, Pacific flounders were 6 percent, Pacific cod and hake (whiting) 4 percent, and other fish and shellfish the remainder.

Japan continued as the leading nation fishing in the U.S. FCZ with a catch of 1.2 million metric tons or 70 percent of the total foreign catch in 1981. Catches by vessels of the Republic of Korea, the second most important catching nation, were 243,000 metric tons, 16 percent above 1980.

U.S. VS. FOREIGN CATCH IN U.S. FCZ. The combined catch by U.S. and foreign vessels in the FCZ was 2.7 million metric tons in 1981, up 7 percent compared with 1980. The U.S. share rose to 39 percent of the total, up from 36 percent in 1980.

MARINE RECREATIONAL CATCH. The data shown in the publication are for the Atlantic Coast and Gulf of Mexico Coast for 1979 and are part of a recently initiated survey of marine recreational fisheries in the United States. Survey results for other areas were not available in time to be included in the publication, but will be published in the next few months. Fisheries of the United States, 1982, will contain data on the total U.S. marine recreational catch.

WORLD LANDINGS. In 1980, the most recent year for which data are available, world commercial fishery landings were a record 72.2 million metric tons, 1 percent more than the revised 1979 total of 71.3 million metric tons. Japan continues to be the leading nation with 14 percent of the total; the USSR, second with 13 percent; China, third with 6 percent; United States, fourth with 5 percent; and Chile, fifth with 4 percent.

PRICES. During 1981, the Index of Exvessel Prices for Fish and Shellfish increased to 431.0. The index (1967=100) for edible fish was 439.9, up 8 percent from 1980. Among the few exceptions to this upward trend were the exvessel prices for Pacific halibut, salmon, and whiting which declined slightly. The index for industrial fish was 314.1 for 1981, down less than 1 percent compared with 1980. The edible shellfish index increased from 376.4 in 1980 to 427.7.

PROCESSED PRODUCTS. The 1981 value of domestic production of edible and nonedible processed fishery products was $4.9 billion, $451.3 million above 1980. The value of edible products increased to $4.5 billion, 11 percent above 1980. All categories of edible products increased in value except fish portions which declined $25.2 million. The value of industrial products of $433.7 million in 1981 was $16.0 million more than 1980.

FOREIGN TRADE. Total import value of edible and nonedible fishery products was a record $4.2 billion in 1981, an increase of 14 percent compared with 1980. U.S. imports of edible fishery products were 2.3 billion pounds (product weight) valued at a record $3.0 billion in 1981, up 6 percent in quantity and 13 percent in value. U.S. imports of nonedible (industrial) products were valued at $1.1 billion in 1981, up 18 percent compared with 1980.

Total export value of edible and nonedible fishery products of domestic origin was a record $1.2 billion in 1981, an increase of 15 percent over 1980. The United States exported a record 669.3 million pounds of edible fishery products valued at $1.1 billion in 1981, up 17 percent in quantity and 19 percent in value from 1980. Exports in 1981 of nonedible products were valued at $84.2 million, 17 percent less than the nonedible products exported one year ago.

SUPPLY. THE U.S. supply of edible fishery products (domestic landings plus imports, round weight equivalent) was 8.3 billion pounds in 1981, 3 percent more than 1980. The change includes an 8 percent increase in imports of edible fishery products and a 3 percent decrease in domestic landings. The supply of industrial fishery products was 3.1 billion pounds in 1981, 8 percent less than 1980. A decrease in domestic landings of industrial products contributed to this decline.

PER CAPITA CONSUMPTION. U.S. consumption of fishery products was 13.0 pounds of edible meat per person in 1981, up 0.2 pound from 1980.

# REVIEW

## OTHER IMPORTANT FACTS

Menhaden landings in 1981 of 2.1 billion pounds (955,000 metric tons) made up 35 percent of the commercial fishery landings in the United States.

Salmon was the second most important in quantity and value.

Crabs were the third most important in quantity and value.

Shrimp was the fourth most important in quantity and first in value.

Tuna was the fifth most important in quantity, but fourth in value.

Scallops were fifth in value.

Tuna landings by U.S. craft at ports outside the United States amounted to 148.7 million pounds, mostly landed at Puerto Rican ports. Other species landed at ports outside the United States were shrimp, at Central and South American ports, and Pacific groundfish and squid onto foreign vessels in the U.S. FCZ.

Cameron, Louisiana, was the leading U.S. port in quantity of commercial fishery landings. The second was Los Angeles Area, California, followed by Empire-Venice, Louisiana; Pascagoula-Moss Point, Mississippi; and Dulac-Chauvin, Louisiana. Menhaden was the principal species landed at these ports, except at the Los Angeles Area, where tuna was the principal species.

Kodiak, Alaska was the leading U.S. port in terms of value, followed by the Los Angeles Area and San Diego, California; New Bedford, Massachusetts; and Dutch Harbor, Unalaska, Alaska.

Louisiana led all States in volume of landings with 1.2 billion pounds, followed by Alaska with 975.2 million pounds; California with 775.2 million; Virginia with 487.9 million; and North Carolina with 432.0 million pounds.

Alaska led all States in value with $639.8 million, followed by California with $275.2 million; Massachusetts with $196.9 million; Louisiana with $193.5 million; and Texas with $174.8 million.

Joint venture catches in 1981 of 307.8 million pounds valued at $21.0 million were caught by U.S. fishermen and unloaded onto foreign vessels in the U.S. FCZ. This represents a substantial increase over 1980, when 137.7 million pounds were caught valued at $8.4 million. The major species caught were Alaska pollock, Pacific hake (whiting), and Pacific flounder.

# REVIEW

## RECORDS ESTABLISHED

### U.S. COMMERCIAL LANDINGS

Value of U.S. commercial landings — $2.4 billion....(previous high, 1980 -- $2.2 billion).

Bluefish -- 16.7 million pounds and $3.2 million....(previous high, 1980 -- 15.7 million pounds and $2.4 million).

Cods -- $42.8 million....(previous high, 1980 -- $38.0 million).

Rockfishes -- 118.8 million pounds....(previous high, 1980 -- 105.7 million pounds).

Sharks -- 23.3 million pounds....(previous high, 1979 -- 22.6 million pounds).

Crabs -- $296.6 million....(previous high, 1980 -- $291.4 million).

Lobster, American -- 37.5 million pounds and $86.5 million....(previous high, 1979 -- 37.2 million pounds, and 1980 — $75.2 million).

Scallops, Calico -- 14.6 million pounds....(previous high, 1976 -- 2.3 million pounds).

Squid -- 54.3 million pounds....(previous high, 1979 -- 48.7 million pounds).

### U.S. PRODUCTION OF PROCESSED FISHERY PRODUCTS

Value of canned fishery products -- $2.2 billion....(previous high, 1980 -- $1.9 billion).

Value of canned fishery products for human consumption -- $2.0 billion....(previous high, 1980 -- $1.8 billion).

Production of all fillets and steaks -- 208.4 million pounds....(previous high, 1951 -- 205.5 million pounds).

### U.S. IMPORTS

Total value -- $4.2 billion....(previous high, 1979 -- $3.8 billion).

Value of edible fishery products -- $3.0 billion....(previous high, 1980 -- $2.7 billion).

Lobster, American -- 40.3 million pounds (round weight)....(previous high, 1980 -- 32.2 million pounds).

### U.S. EXPORTS

Total value -- $1.2 billion....(previous high, 1979 -- $1.1 billion).

Edible fishery products -- 669.3 million pounds....(previous high, 1980 -- 573.9 million pounds).

Value of edible fishery products — $1.1 billion....(previous high, 1979 -- $1.0 billion).

### U.S. SUPPLY (DOMESTIC PRODUCTION PLUS IMPORTS)

All fillets and steaks -- 622.5 million pounds....(previous high, 1979 -- 614.7 million pounds).

Groundfish fillets and steaks -- 331.7 million pounds....(previous high, 1979 -- 327.5 million pounds).

Lobster, American -- 77.8 million pounds (round weight)....(previous high, 1980 -- 69.2 million pounds).

Scallop meats -- 71.8 million pounds (edible weight)....(previous high, 1978 -- 61.7 million pounds).

# REVIEW

## IMPORTANT SPECIES

ALASKA POLLOCK AND OTHER PACIFIC TRAWL FISH. U.S. landings of Pacific trawl fish Pacific cod, flounders, hake (Pacific whiting), ocean perch, Alaska pollock, and rockfishes were 244.9 million pounds valued at $48.6 million, up 18 percent in volume and 15 percent in value compared with 1980. Decreases in landings of ocean perch (20 percent), and hake (7 percent), were offset by increases in landings of Pacific cod (122 percent), Alaska pollock (24 percent), rockfishes (12 percent) and flounders (3 percent).

The foreign catch of trawl fish in the Pacific U.S. FCZ was 1.6 million metric tons, unchanged from 1980. About 81 percent of this catch was in the Eastern Bering Sea, 15 percent in the Gulf of Alaska, and the remaining 4 percent off Washington, Oregon, and California. Alaska pollock was the leading species caught (1.1 million metric tons), followed by Pacific flounders (187,590 metric tons), and Pacific cod (74,110 metric tons). Japan, South Korea, and Poland were the major fishing nations.

ANCHOVIES. U.S. landings of anchovies in 1981 were 126.6 million pounds, an increase of 19.7 million pounds (18 percent) compared with 1980. In 1981, 122.8 million pounds were used for industrial purposes, with 107.9 million pounds or 88 percent of the anchovies reduced to meal, oil, and solubles. Another 14.0 million pounds or 11 percent were used for bait, mostly live bait for sport fishing. There were 881,000 pounds used for pet food. Most of the anchovies were caught in purse seines, although some were taken with lampara nets.

HALIBUT. U.S. landings of Atlantic and Pacific halibut were 26.9 million pounds (round weight) valued at $21.5 million, up 7.7 million pounds and $4.7 million compared with 1980. The Pacific fishery accounted for 99 percent of the 1981 total. The average exvessel price per pound in 1981 was 80 cents compared with 88 cents in 1980.

HERRING, SEA. U.S. commercial landings of sea herring were 247.0 million pounds valued at $30.5 million in 1981, down 15 percent in volume and 32 percent in value compared with 1980. Landings of Atlantic sea herring were 139.1 million pounds valued at $7.6 million, down 24 percent in quantity and 26 percent in value from 1980. Landings of Pacific sea herring were 107.9 million pounds valued at $22.9 million, an increase of 839,000 pounds (1 percent) and a decrease of $11.7 million (34 percent) in value compared with 1980. The average exvessel price per pound of Pacific sea herring decreased from 32 cents in 1980 to 21 cents in 1981.

JACK MACKEREL. Landings of jack mackerel in California in 1981 were 31.0 million pounds valued at $2.8 million, a 30 percent decrease in quantity and value compared with 1980. The landings of jack mackerel have declined 3 of the past 4 years. In 1977, 110.2 million pounds were landed.

MACKEREL, ATLANTIC. U.S. landings of Atlantic mackerel in 1981 were 5.8 million pounds with an exvessel value of $820,000--67,000 pounds less than in 1980 but an increase of $4,000 in value. New Jersey was the leading State with landings of 3.2 million pounds (55 percent), followed by Massachusetts with 1.0 million pounds (18 percent). The average exvessel price per pound in 1980 and 1981 was 14 cents.

MACKEREL, PACIFIC. Landings of Pacific mackerel in 1981 were 85.0 million pounds valued at $7.6 million. Compared with 1980 the quantity and value increased 31 percent. Landings have increased significantly since 1977 when 10.2 million pounds were landed.

Prior to 1978, the State of California prohibited the landing of Pacific mackerel, except for an incidental take limited to 18 percent by weight for a trip. The reason for more Pacific mackerel landings in 1979, 1980, and 1981 was an increase in abundance and the removal of the State of California regulations.

MENHADEN. U.S. menhaden landings were 2.1 billion pounds valued at $81.3 million in 1981, down 391.2 million pounds (16 percent) in quantity and $30.7 million (27 percent) in value compared with 1980. Landings declined in the Atlantic States by 6 percent and in the Gulf States by 21 percent. About 99 percent of the total landings were reduced to meal, oil, and solubles; the rest was used for bait or for canned pet food.

Landings along the Atlantic Coast were 887.2 million pounds worth $33.6 million in 1981, a decrease of 6 percent in quantity and 22 percent in value compared with 1980. Of this amount, 863.5 million pounds were used for reduction in 1981, the remainder for bait and canned pet food.

Landings of Gulf menhaden were 1.2 billion pounds compared with the 1980 landings of 1.5 billion pounds. The 1981 landings were 33 percent less than the record year of 1978 when 1.8 billion pounds were landed. Gulf Coast landings in July and September were the highest during the year when 268.8 and 213.5 million pounds were landed.

NORTH ATLANTIC TRAWL FISH. North Atlantic groundfish landings in 1981 were 416.6 million pounds (188,969 metric tons) valued at $152.2 million, down 10 percent in quantity and up 4 percent in value compared to the 461.3 million pounds valued at $146.3 million landed in 1980. Fish included are: butterfish, Atlantic cod, cusk, flounders, haddock, red and white hake, Atlantic ocean perch, pollock, and whiting (silver hake). Of these species, flounders led in value, accounting for 45 percent of the total, cod second with 22 percent, and haddock third with 14 percent.

# REVIEW

## IMPORTANT SPECIES

Atlantic cod and haddock, managed under an FMP since 1977, have shown a marked increase in landings since 1976 when landings were 56.0 million and 12.8 million pounds respectively. In 1981 cod landings were 100.5 million pounds and haddock 55.3 million pounds. Yellowtail flounder have also been managed under an FMP since 1977, but landings have not shown a substantial increase. Yellowtail landings in 1976 were 38.0 million pounds and 34.1 million pounds in 1981.

Foreign catches in the North Atlantic FCZ in 1981 were 77,068 metric tons, a 12 percent increase compared with 68,527 metric tons in 1980. Canada was the leading country with 39 percent, Spain second with 26 percent, Italy third with 16 percent, and Japan fourth with 14 percent. The only other country fishing the area was Poland. Squid catches of 34,304 metric tons led all species caught (45 percent). Other species in order of significance were cod (12 percent), sea scallops (10 percent), haddock (8 percent), Atlantic mackerel (7 percent), and pollock (5 percent).

PACIFIC SALMON. U.S. commercial landings were 648.4 million pounds valued at $438.2 million, an increase of 34.6 million pounds (6 percent) and $86.0 million (24 percent) compared with 1980. The increase resulted primarily from higher landings of chum and red salmon in Alaska and pink salmon in Washington. Alaska accounted for 91 percent of the total landings; Washington, 7 percent; and Oregon and California 1 percent each. Landings of 1,000 pounds of silver salmon were made in the Great Lakes.

Alaska salmon landings in 1981 were 589.5 million pounds, up 22.4 million pounds (4 percent) from 1980. The 1981 landings were the largest since 1942. The value of Alaska salmon was $368.1 million in 1981, an increase of $81.5 million (28 percent) compared with 1980. Pink salmon landings of 236.8 million pounds in 1981 decreased by 16.7 million pounds (7 percent) from 1980. Landings of the other species increased from 1980 to 1981, with chinook salmon landings up 5.6 million pounds (48 percent) from 1980. Chum salmon landings were 93.1 million pounds, up 25 percent from 1980. Landings of red salmon (218.7 million pounds) and silver salmon (23.8 million pounds) increased 7 percent and 3 percent respectively compared with 1980.

Washington salmon landings in 1981 were 46.0 million pounds, an increase of 12.2 million pounds (36 percent) compared with 1980. The 1981 value of $45.9 million was an increase of $6.1 million (15 percent) from 1980. Pink salmon landings of 19.9 million pounds accounted for 43 percent of the landings in Washington in 1981. Red salmon landings of 7.5 million pounds were an increase of 4.3 million pounds over 1980. Landings of silver (6.8 million pounds) and chum (5.8 million pounds) salmon decreased 5.8 million pounds and 4.8 million pounds respectively. Chinook salmon landings decreased 1.5 million pounds, from 7.6 million pounds in 1980 to 6.0 million pounds in 1981.

Oregon salmon landings were 7.0 million pounds valued at $10.2 million, unchanged in quantity but a decrease of $2.4 million in value compared with 1980. Landings of pink salmon went from 1,000 pounds in 1980 to 373,000 pounds in 1981. Silver salmon landings increased 29 percent to 4.2 million pounds in 1981, while chinook salmon decreased 35 percent to 2.4 million pounds in 1981. Landings of chum salmon increased from 2,000 pounds in 1980 to 11,000 pounds in 1981.

California salmon landings increased from 5.9 million pounds in 1980 to 6.0 million pounds in 1981. The 1981 value ($14.0 million) increased 6 percent compared with 1980. Chinook salmon landings in 1981 were 5.5 million pounds compared with 5.6 million pounds in 1980, while silver salmon went from 300,000 pounds in 1980 to 482,000 pounds in 1981.

SABLEFISH. U.S. commercial landings of sablefish were 28.3 million pounds valued at $6.5 million in 1981. This was an increase of 6.2 million pounds (28 percent) and $1.1 million (21 percent) in value compared with 1980. The 1981 landings were 20.1 million pounds less than landings in 1979, the record year when 48.4 million pounds were landed. Landings in 1981 increased in California to 13.9 million pounds (67 percent) and in Washington to 5.6 million pounds (80 percent) compared with 1980. Landings declined in Oregon to 5.2 million pounds (12 percent) and in Alaska to 3.6 million pounds (24 percent) compared with 1980. The average exvessel price per pound in 1981 was 23 cents compared with 24 cents in 1980.

TUNA. Landings of tuna in 1981 by U.S. fishermen at ports in the 50 States, Puerto Rico, American Samoa, other U.S. territories, and foreign ports were 489.9 million pounds valued at $285.6 million, down 2 percent in quantity but up 1 percent in value from 1980. The quantity landed was 10 percent below the average for the previous 5 years. The average exvessel price per pound for all species of tuna for 1981 was 58 cents, about the same as in 1980.

Bigeye landings in 1981 were 4.7 million pounds, down 2.3 million pounds (33 percent) from 1980. The average exvessel price per pound was 61 cents in 1981 compared to 58 cents in 1980.

Skipjack landings in 1981 were 200.3 million pounds, down 34.7 million pounds (15 percent) from 1980. The average exvessel price per pound in 1981 was 52 cents compared to 54 cents in 1980.

Yellowfin landings were 249.7 million pounds in 1981, up 18.1 million pounds (8 percent) from 1980. The average exvessel price in 1981 was 59 cents compared with 60 cents in 1980.

Bluefin landings were 4.8 million pounds in 1981, down 3.3 million pounds (41 percent) from 1980. The average exvessel price per pound was 79 cents in 1981 compared to 88 cents in 1980.

Almost 70 percent of the tuna landings were at ports in the continental United States (principally California, with 93 percent of continental landings).

# REVIEW

## IMPORTANT SPECIES

CLAMS. Landings of all species yielded 120.6 million pounds of meats worth $107.1 million in 1981. Compared with 1980, landings increased 25.3 million pounds (26 percent) and $16.9 million (19 percent) in value in 1981. The average exvessel price went from 95 cents in 1980 to 89 cents in 1981.

Surf clams yielded 46.1 million pounds of meats valued at $23.5 million, up 8.4 million pounds in quantity (22 percent) and $4.4 million in value (23 percent) compared with 1980. New Jersey was the leading State with 20.3 million pounds; followed by Maryland, 11.6 million; Virginia, 11.3 million; and New York, 2.3 million pounds. The average exvessel price per pound was 51 cents in 1981, the same as 1980.

The ocean quahog fishery produced 36.1 million pounds of meats valued at $10.2 million in 1981, an increase of 2.3 million pounds (7 percent) but down $3,000 in value compared with 1980. New Jersey was the leading producer in the United States with 20.8 million pounds of meats accounting for 58 percent of the total landings of ocean quahog. Maryland was second with 8.4 million pounds (23 percent), followed by Rhode Island, 7.0 million pounds (19 percent). The average exvessel price per pound of meat was 28 cents in 1981 compared with 30 cents in 1980.

The hard clam fishery produced 18.1 million pounds of meats valued at $51.2 million. This was an increase of 4.7 million pounds of meats (36 percent) and $7.1 million (16 percent) over 1980. Landings in the Middle Atlantic region (mostly New York) were 5.5 million pounds; Chesapeake, 5.1 million; New England, 5.0 million; South Atlantic, 1.8 million; and the Pacific, 584,000 pounds of meats. Average exvessel price per pound of meats in 1981 was $2.82 compared to $3.30 in 1980.

Soft clams yielded 8.1 million pounds of meats valued at $13.9 million. This was a decrease of 876,000 pounds (10 percent) and $1.5 million (10 percent) in value from 1980. Maine was the leading State with 5.3 million pounds (65 percent of the total landings), followed by Maryland with 1.6 million pounds of meats. The average exvessel price per pound of meats was $1.72 in 1981, the same as 1980.

CRABS. Landings of all species of crabs were 446.0 million pounds valued at $296.6 million, a decrease of 77.1 million pounds (15 percent) in quantity but up $5.2 million (2 percent) in value over 1980. Landings decreased for major species except hard blue crabs.

Hard blue crab landings were 195.1 million pounds valued at $46.4 million, an increase of 31.9 million pounds (20 percent) and $11.3 million (32 percent) compared with 1980. Hard blue crab landings in the Chesapeake States increased 50 percent from 1980 to 94.7 million pounds. Blue crab landings in the South Atlantic States were 60.5 million pounds, up 10 percent; Middle Atlantic, 2.5 million pounds, down 35 percent; and landings in the Gulf States, 37.4 million pounds, down 9 percent over 1980. The average exvessel price per pound of crabs in 1981 was 24 cents compared with 22 cents in 1980.

Dungeness crab landings were 35.6 million pounds worth $29.1 million, a decrease of 2.7 million pounds (7 percent) and an increase of $7.5 million (35 percent) compared with 1980. The average exvessel price per pound increased from 56 cents in 1980 to 82 cents in 1981. Alaska led with landings of 14.9 million pounds, up 152 percent from 1980. Landings in California increased 57 percent; Washington decreased 48 percent; and Oregon decreased 63 percent relative to 1980.

U.S. landings of king crabs were 88.1 million pounds, valued at $157.7 million. This harvest was down 97.6 million pounds (53 percent) from the record of 185.6 million pounds in 1980. The fishery in the Bering Sea decreased to 58.4 million pounds valued at $100.3 million, down 100.0 million pounds (63 percent) and $42.3 million (30 percent) compared to 1980. The exvessel price per pound reached $1.72 for 1981 compared with 90 cents in 1980. Landings in the Gulf of Alaska were 29.7 million pounds with an average exvessel price of $1.93 per pound compared with 27.2 million pounds landed in 1980 and valued at 96 cents per pound.

Snow (tanner) crab landings were 107.5 million pounds valued at $47.3 million--a decrease of 14.2 million pounds (12 percent) and $7.8 million (14 percent) in value from 1980. Landings taken in the Bering Sea of the smaller Chionoecetes opilio were 50.5 million pounds while C. bairdi landings were 30.4 million pounds. Landings of C. bairdi from the Gulf of Alaska were 26.6 million pounds, down 18.0 million pounds (40 percent) from 1980. The average exvessel price per pound for 1981 was 44 cents compared with 45 cents in 1980.

LOBSTER, AMERICAN. Landings of American lobster in 1981 were 37.5 million pounds valued at $86.5 million--up 542,000 pounds (1 percent) and $11.3 million (15 percent) compared with 1980. The average exvessel price per pound was $2.31 in 1981 compared with $2.04 in 1980. Landings in Maine, the principal producing State, were 22.3 million pounds, about 1 percent more than the previous year. Massachusetts landings of 9.8 million pounds increased by only 140,000 pounds from the previous year. Rhode Island landings of 2.2 million pounds decreased by 205,000 pounds compared with 1980.

## IMPORTANT SPECIES

LOBSTER, SPINY. U.S. landings of spiny lobster were 6.6 million pounds valued at $19.4 million in 1981, down 242,000 pounds (4 percent) and up $4.6 million (31 percent) from 1980. The average exvessel price per pound was $2.93 compared with $2.16 in 1980. Florida landings accounted for 82 percent of the total landings and 69 percent of the value.

OYSTERS. U.S. landings in 1981 yielded 50.1 million pounds of meats valued at $68.6 million, an increase of 971,000 pounds (2 percent) in quantity and down $1.5 million (2 percent) in value compared with 1980. Chesapeake States led in production with 22.2 million pounds of meat, followed by the Gulf States with 17.1 million pounds. Landings increased in the Chesapeake States, the South Atlantic, and the Gulf and decreased in New England, the Middle Atlantic, and the Pacific.

SHRIMP. U.S. landings were 354.6 million pounds (heads-on) valued at $463.4 million--up 4 percent in volume and 15 percent in value compared with 1980. The average exvessel price per pound for 1981 was $1.31 compared to $1.19 in 1980. Shrimp landings increased in the New England and Gulf States and declined in the South Atlantic and Pacific States.

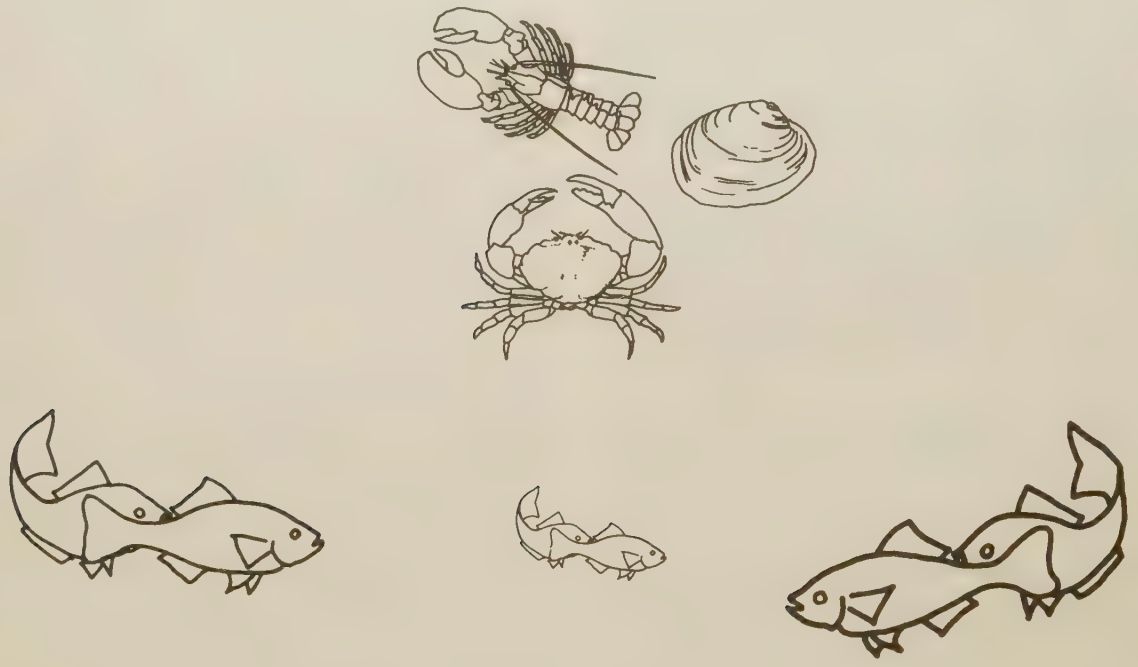
Gulf landings of 268.2 million pounds were up 29 percent over 1980. Louisiana led all States with 110.2 million pounds (up 24 percent), followed by Texas, 95.7 million pounds (up 29 percent).

SCALLOPS. U.S. landings of all species yielded 45.6 million pounds of meats worth $127.6 million in 1981--up 15.9 million pounds (53 percent) in quantity and $13.2 million (12 percent) in value from 1980. The average exvessel price per pound in 1981 was $2.80 compared to $3.85 in 1980.

U.S. bay scallop landings in 1981 of 670,000 pounds of meats valued at $2.4 million were down 298,000 pounds (31 percent) in quantity and $1.5 million (38 percent) in value compared with 1980. Massachusetts was the leading State in 1981 with landings of 215,000 pounds. The average exvessel price per pound for bay scallops was $3.62 in 1981 compared to $4.02 in 1980.

Sea scallop landings were 30.3 million pounds of meats valued at $111.2 million in 1981--up 1.5 million pounds (5 percent) in quantity and an increase in value of $787,000 (1 percent) compared with 1980. Average exvessel price per pound in 1981 was $3.67 compared with $3.84 in 1980.

Calico scallop landings were 14.6 million pounds of meats valued at $13.9 million in 1981. No landings were recorded in 1980. Average exvessel price per pound was 95 cents.



# REVIEW

## PER CAPITA CONSUMPTION

PER CAPITA CONSUMPTION. U.S. per capita consumption of fish and shellfish was 13.0 pounds (edible meat) in 1981. This was 0.2 pound more than the 12.8 pounds consumed in 1980.

Consumption of canned fishery products in 1981, at 4.8 pounds per person, rose 0.3 pound due mostly to an increase in the packs of tuna and sardines. Tuna at 3.1 pounds per person registered a 0.2 pound increase and sardines at 0.4 pound per person registered a 0.1 pound increase.

Per capita consumption of fresh and frozen fish and shellfish in 1981 was 7.8 pounds, down 0.2 pound from 1980. Per capita consumption of clams was 0.4 pound, up 0.2 pound, and scallop consumption was 0.3 pound, up 0.1 pound. The increase in fresh and frozen shellfish consumption was offset by a decline in the fresh and frozen fish category, decreasing from 5.5 pounds in 1980 to 5.0 pounds in 1981. Lower stocks at the beginning of the year and higher exports accounted for most of the decrease.

Per capita consumption of cured fishery products was 0.4 pound, up 0.1 pound over 1980.

Per capita data for fish and shellfish have been revised back to 1970 to reflect the results of the 1980 census.

In addition to consumption of commercially caught fish and shellfish, recreational fishermen catch and consume an estimated 3 or 4 pounds of edible meat per person.

PER CAPITA USE. The per capita use of all fishery products (edible and industrial) was 49.4 pounds (round weight) in 1981, down 0.5 pounds (1 percent) from 1980. One reason for the decrease was that landings were down 505.3 million pounds. The per capita use of edible fishery products was up 2 percent and industrial use was down 9 percent.

## PROCESSED FISHERY PRODUCTS

### *FRESH AND FROZEN*

FISH FILLETS AND STEAKS. In 1981, the U.S. production of raw (uncooked) fish fillets and steaks set records in quantity and value at 208.4 million pounds and $304.5 million. This was 6.2 million pounds and $43.3 million more than the 1980 production and exceeded by 2.9 million pounds the previous record production established in 1951. Flounder fillets led all species with 53.8 million pounds or 26 percent of the total. Production of groundfish fillets and steaks (cods, cusk, haddock, hake, Atlantic ocean perch, and Atlantic pollock) was 74.5 million pounds in 1981 compared with 66.7 million pounds produced in 1980.

FISH STICKS AND PORTIONS. The combined production of fish sticks and portions was 405.4 million pounds valued at $462.6 million in 1981, compared with a 1980 production of 432.7 million pounds, valued at $477.2 million. The production of all portion items decreased in 1981 -- batter coated cooked by 9.8 million pounds, unbreaded portions by 9.4 million, breaded raw by 8.5 million, and breaded cooked by 3.1 million pounds.

The 1981 production of fish sticks of 92.0 million pounds valued at $99.4 million reflects an increase of 3.6 million pounds in production and $10.6 million in value compared with 1980. The production of breaded raw and breaded cooked fish stick production increased in 1981; 372,000 pounds for breaded raw and 4.2 million pounds for breaded cooked. The production of batter coated fish sticks declined slightly to 970,000 pounds compared with the 1980 production.

BREADED SHRIMP. The 36 plants reporting to NMFS on a quarterly basis during 1981 produced 88.1 million pounds valued at $254.5 million. In 1980, 35 plants reporting on a quarterly basis produced 82.0 million pounds valued at $251.0 million. The additional firms that report on an annual basis produced 1.2 million pounds valued at $3.3 million in 1980. Data on the 1981 production of the plants that only report on an annual basis are not yet available.

FROZEN FISHERY TRADE. In 1981, stocks of frozen fishery products in cold storage were at a low of 293.6 million pounds on May 31 and a high of 388.0 million pounds on January 31. Cold storage holdings of shrimp products, which were 79.1 million pounds on January 31, dropped to 46.0 million pounds by May 31, and ended the year at 64.9 million pounds on December 31. Fish block holdings reached a high of 56.0 million pounds on July 31. By the end of 1981, stocks of fish blocks had declined to 43.8 million pounds. King crab holdings were 32.4 million pounds on January 31, but reached a low of 8.6 million pounds on August 31, 1981.

## CANNED FISHERY PRODUCTS

CANNED FISHERY PRODUCTS. The 1981 pack of canned fishery products in the 50 States, American Samoa, and Puerto Rico was 56.6 million standard cases (1.6 billion pounds) valued at a record $2.2 billion--increases of 2.9 million standard cases (84.7 million pounds) and $230.4 million compared with the 1980 pack. The 1981 pack included 45.8 million standard cases (1.1 billion pounds) valued at a record $2.0 billion for human consumption, and 10.9 million standard cases (521.6 million pounds) valued at $213.4 million for bait and animal food. The packs of gefiltefish, salmon, Maine sardines, tuna, tunalike fish, clams and clam products, and squid, together with the packs for bait and animal food increased in 1981, but the remaining packs of fish and shellfish declined.

CANNED SALMON. The 1981 U.S. pack of natural Pacific salmon reached 4.5 million standard cases, (217.7 million pounds) valued at $415.9 million, compared with 4.2 million standard cases (201.7 million pounds) valued at $403.8 million packed a year earlier. For the first time since 1945, the Alaska canned salmon pack topped 4.5 million cases, led by 1.3 million cases of red or sockeye, and 2.5 million standard cases of pinks. Alaskan plants accounted for more than 99 percent of the quantity and value of the salmon pack. The Alaskan catch of more than 111 million fish was the third largest catch in history. An even larger catch is predicted for 1982 when an estimated 135 million fish will be harvested, making 1982 the largest salmon year in history. The larger catches of recent years can be attributed to mild winters and warmer sea temperatures allowing a higher than normal juvenile survival rate.

CANNED SARDINES. The pack of Maine sardines (sea herring) was 1.6 million standard cases valued at $54.9 million, increases of 784,400 standard cases and $23.3 million compared with 1980. An additional pack of herring and herring specialties of 85,800 standard cases valued at $6.3 million was packed in 1981--50,100 standard cases and $4.3 million less than the 1980 pack. The decline in the pack of herring specialties can be attributed to smaller fish being utilized in the Maine sardine pack.

CANNED TUNA. The 1981 U.S. pack of tuna was 32.4 million standard cases, (639.0 million pounds) valued at $1.3 billion. This was 1.9 million standard cases (37.0 million pounds) and $138.2 million more than the 1980 pack. The pack of albacore tuna was 6.0 million standard cases in 1981--524,000 standard cases more than the 5.5 million standard cases produced in 1980. Albacore tuna was 19 percent of the tuna pack in 1981. Lightmeat tuna (bigeye, bluefin, skipjack, and yellowfin) comprised the remainder with a pack of 26.4 million standard cases--1.4 million standard cases more than the 25.0 million standard cases packed in 1980. Plants in the United States packed 44 percent of the total; plants in American Samoa, Hawaii, and Puerto Rico packed the rest. About 31 percent of the total U.S. supply of canned tuna was packed from U.S.-caught fish, and 59 percent from imported fish. Imports of canned tuna made up the remaining 10 percent.

CANNED CLAMS. The U.S. pack of clams (whole, minced, chowder, and juice) was 3.1 million standard cases valued at a record $68.7 million -- 109,500 standard cases and $2.4 million more than the pack in 1980. The 1981 pack of whole and minced clams of 791,700 standard cases, (61,600 standard cases more than the 1980 pack), accounted for 26 percent of the total clam pack in 1981. Clam chowder and clam juice (2.3 million standard cases) made up the remaining 1981 pack.

CANNED SHRIMP. The 1981 U.S. pack of natural shrimp was 1.8 million standard cases valued at $59.2 million, 515,000 standard cases and $11.3 million less than the 1980 pack. Plants in Louisiana and Mississippi packed 1.1 million standard cases, about 700,000 standard cases less than the previous year, while the pack produced in Alaska and Washington increased.

OTHER CANNED ITEMS. The U.S. pack of mackerel was 809,300 standard cases valued at $11.2 million in 1981, 40,500 standard cases and $354,000 less than the previous year. The pack of tunalike fish (bonito) in 1981 was 262,800 standard cases valued at $6.2 million, compared with 224,200 standard cases, valued at $5.5 million a year earlier. Although more plants packed in 1981 compared to 1980, the natural pack of oysters continued to decline. Just over 63,000 standard cases valued at $1.2 million were packed. In 1981 the pack of pet food (10 pounds of fish per standard case of 48 one-pound cans) was 10.9 million standard cases valued at $211.6 million, a increase of 302,300 standard cases and $67.6 million compared with the pack in 1980. The larger pack of natural tuna in 1981 is reflected in the larger pack of pet food, as approximately 49 percent of the pack is represented by tuna.

# REVIEW

## PROCESSED FISHERY PRODUCTS

### *INDUSTRIAL FISHERY PRODUCTS*

INDUSTRIAL FISHERY PRODUCTS. The 1981 value of industrial fishery products produced in the 50 States, American Samoa, and Puerto Rico was $220.3 million, $49.3 million less than the record in 1980. In terms of value, the leading States were Louisiana ($69.2 million), Maine ($39.2 million), and Virginia ($21.9 million).

FISH MEAL AND SCRAP. Domestic production in 1981 (including shellfish meal) was 318,431 short tons, 43,491 short tons less than the production of 361,922 short tons produced in 1980. Menhaden meal production (230,824 short tons) was 40,357 short tons less than the production of 271,181 short tons produced in 1980, but still amounted to nearly 73 percent of all the domestic fish and shellfish meal produced. The production of anchovy meal (10,230 short tons), tuna and mackerel meal (47,179 short tons), and shellfish meal (8,294 short tons) were up from the 1980 production by 2,396 short tons, 160 short tons, and 1,699 short tons respectively. Unclassified meal (21,904 short tons) consisting mainly of alewives, carp, sea herring, and unclassified fish measured a decrease of 7,389 short tons compared to the 1980 production of 29,293 short tons.

FISH SOLUBLES. Domestic production of fish solubles in 1981 (128,621 short tons) was 5,061 short tons tons less than the 1980 production. Menhaden solubles (99,739 short tons) accounted for more than 77 percent of the total production.

FISH OILS. The 1981 domestic production of fish oils was 184.3 million pounds--128.2 million pounds less than the 1980 record production of 312.5 million pounds. Menhaden oil production of 170.0 million pounds was 121.4 million pounds less than the 1980 production and comprised 92 percent of all fish oils produced. Tuna and mackerel oil production (4.5 million pounds) increased in 1981 by 394,000 pounds, but anchovy oil (1.7 million pounds) declined by 568,000 pounds. The production of unclassified oil (8.1 million pounds) was 6.6 million pounds less than the 1980 production.

OTHER INDUSTRIAL PRODUCTS. Oyster shell products, together with agar-agar, animal feeds, crab and clam shells processed for food serving, fish pellets, Irish moss extracts, kelp products, dry and liquid fertilizers, pearl essence, shark leathers, and mussel shell buttons were valued at $53.6 million in 1981, compared with $63.5 million in 1980.

## FOREIGN TRADE IN FISHERY PRODUCTS

IMPORTS. Total U.S. import value of edible and nonedible fishery products was a record $4,173 million in 1981, an increase of 14 percent compared with 1980. The value of U.S. imports of edible fishery products in 1981 was a record $3,034 million, $348 million higher than the previous record established in 1980. The quantity of edible imports in 1981 reached 2,272 million pounds, 127 million pounds more than 1980 but 144 million pounds less than the record imports of 2,416 million pounds in 1973. The increase in value for edible imports was due mainly to higher prices for nearly all imported products.

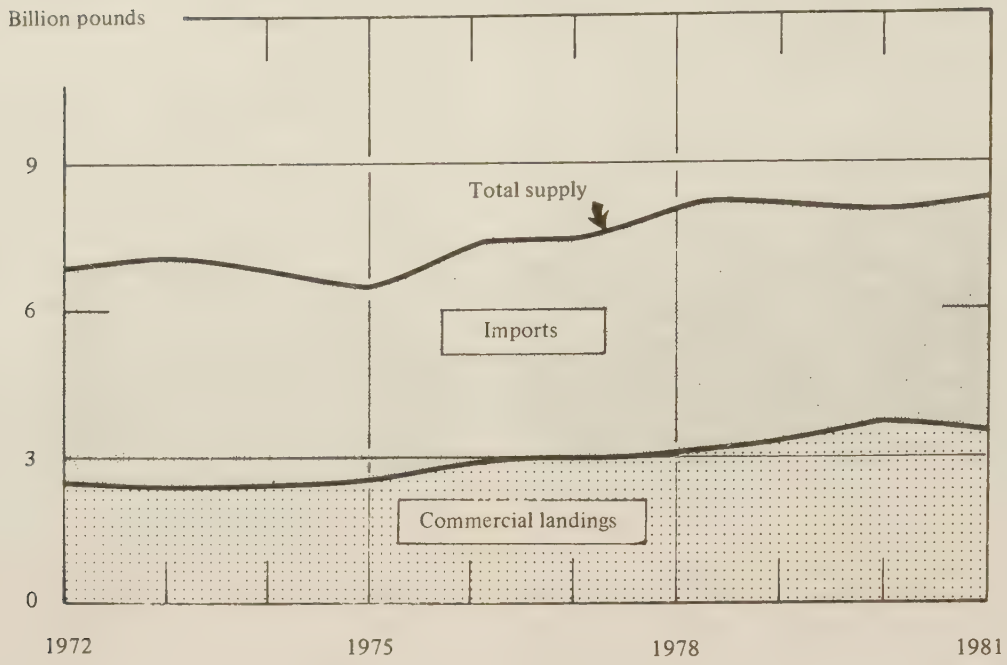
Quantities in 1981 were higher than the previous year for imports of regular and minced blocks; fillets of groundfish and Atlantic ocean perch; fillets of flounders and other flatfishes (except turbot); shrimp; scallops; canned sardines not in oil; tuna in brine; oysters and oyster juice; and cured fishery products. Edible imports in 1981 consisted of 1,957 million pounds of fresh and frozen products valued at $2,582 million, 235 million pounds of canned products valued at $359 million, 73 million pounds of cured products valued at $81 million, and 7 million pounds of other products valued at $12 million.

Nonedible imports were valued at $1,140 million in 1981. This value was $3 million less than the record $1,143 million established in 1979 but an increase of 18 percent from 1980.

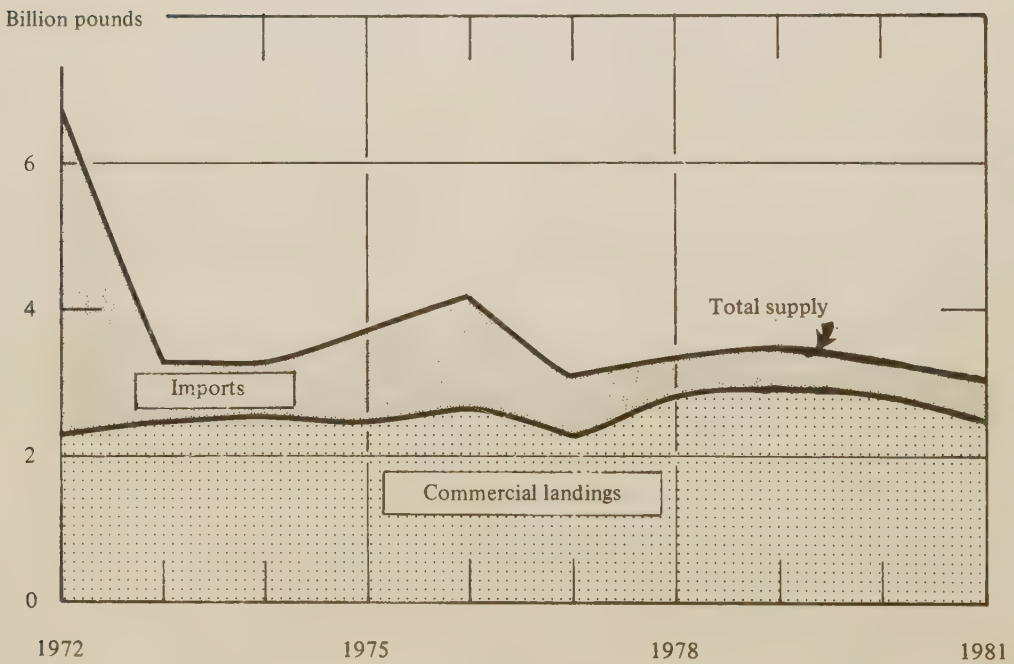
EXPORTS. Total U.S. exports of edible and nonedible fishery products of domestic origin were a record $1.157 million in 1981, an increase of 15 percent from 1980. U.S. exports of edible fishery products of domestic origin set records in quantity and value in 1981 of 669 million pounds and $1,073 million, compared to the 1980 edible exports of 574 million pounds and $904 million. Exports of fresh and frozen items (principally salmon) were 516 million pounds valued at $744 million, canned items 101 million pounds valued at $176 million, and cured items 46 million pounds valued at $146 million.

Exports of nonedible products were valued at $84.2 million in 1981, $17.6 million less than the record year 1980. The decline in value of exports of nonedible products in 1981 can be attributed to smaller shipments of fish and marine animal oils (principally menhaden) and fish meal.

U.S. SUPPLY OF EDIBLE FISHERY PRODUCTS, 1972-81
(Round weight)




U.S. SUPPLY OF INDUSTRIAL FISHERY PRODUCTS, 1972-81
(Round weight)



U.S. COMMERCIAL LANDINGS, BY SPECIES, 1980 AND 1981 (1)

| Species | 1980 | | 1981 | | 5-year average (1977-81) |
|---|---|---|---|---|---|
| Fish | Thousand pounds | Thousand dollars | Thousand pounds | Thousand dollars | Thousand pounds |
| Alewives: | | | | | |
| Atlantic and Gulf | 10,985 | 779 | 8,341 | 671 | 11,106 |
| Great Lakes | 17,523 | 280 | 15,479 | 264 | 27,680 |
| Anchovies | 106,942 | 8,712 | 126,609 | 4,809 | 123,653 |
| Bluefish | 15,676 | 2,426 | 16,659 | 3,234 | 13,685 |
| Bonito | 14,686 | 2,881 | 17,290 | 4,686 | 13,911 |
| Butterfish | 11,568 | 3,848 | 7,785 | 2,646 | 7,306 |
| Cod: | | | | | |
| Atlantic | 118,245 | 31,883 | 100,463 | 33,081 | 96,066 |
| Pacific | 19,672 | 6,069 | 43,620 | 9,696 | 19,466 |
| Croaker | 28,473 | 6,725 | 18,066 | 6,208 | 28,388 |
| Cusk | 4,297 | 872 | 4,031 | 975 | 3,635 |
| Flounders: | | | | | |
| Atlantic and Gulf: | | | | | |
| Blackback | 36,008 | 12,595 | 40,943 | 17,099 | 32,399 |
| Fluke | 34,752 | 18,010 | 23,830 | 16,817 | 25,511 |
| Yellowtail | 42,619 | 19,855 | 34,062 | 16,834 | 34,711 |
| Other | 43,187 | 16,592 | 40,182 | 18,363 | 41,710 |
| Pacific | 60,354 | 15,436 | 62,036 | 16,779 | 61,186 |
| Total | 216,920 | 82,488 | 201,053 | 85,892 | 195,517 |
| Groupers | 8,682 | 7,804 | 12,470 | 13,000 | 8,559 |
| Haddock | 55,188 | 21,424 | 55,324 | 22,014 | 44,062 |
| Hake: | | | | | |
| Pacific (whiting) | 12,021 | 401 | 11,230 | 355 | 12,974 |
| Red | 5,597 | 677 | 5,338 | 900 | 5,336 |
| White | 10,428 | 1,748 | 12,177 | 2,262 | 10,658 |
| Halibut | 19,153 | 16,823 | 26,890 | 21,498 | 20,559 |
| Herring, sea: | | | | | |
| Atlantic | 183,993 | 10,363 | 139,114 | 7,620 | 137,880 |
| Pacific | 107,076 | 34,592 | 107,915 | 22,921 | 73,594 |
| Jack mackerel | 44,390 | 3,995 | 31,026 | 2,792 | 57,762 |
| Lingcod | 8,129 | 2,290 | 7,532 | 1,758 | 7,387 |
| Mackerel: | | | | | |
| Atlantic | 5,913 | 816 | 5,846 | 820 | 4,557 |
| King | 7,035 | 5,361 | 7,223 | 6,221 | 6,621 |
| Pacific | 64,668 | 5,820 | 84,954 | 7,646 | 48,687 |
| Spanish | 11,968 | 3,137 | 6,167 | 1,954 | 8,781 |
| Menhaden: | | | | | |
| Atlantic | 948,859 | 42,883 | 887,220 | 33,576 | 863,685 |
| Gulf | 1,547,790 | 69,129 | 1,218,189 | 47,734 | 1,455,848 |
| Total | 2,496,649 | 112,012 | 2,105,409 | 81,310 | 2,319,533 |
| Mullet | 37,360 | 7,153 | 36,657 | 8,133 | 30,722 |
| Ocean perch: | | | | | |
| Atlantic | 24,201 | 5,548 | 18,591 | 5,262 | 29,487 |
| Pacific | 6,771 | 1,023 | 5,400 | 905 | 6,109 |
| Pollock: | | | | | |
| Atlantic | 39,652 | 7,172 | 37,332 | 8,536 | 36,071 |
| Alaska | 3,107 | 245 | 3,839 | 572 | 3,435 |
| Rockfishes | 105,735 | 19,060 | 118,785 | 20,328 | 79,090 |
| Sablefish | 22,122 | 5,396 | 28,314 | 6,525 | 30,688 |
| Salmon, Pacific: | | | | | |
| Chinook or king | 28,533 | 47,453 | 31,071 | 56,733 | 31,013 |
| Chum or keta | 84,916 | 39,640 | 98,880 | 44,423 | 67,493 |

See notes at end of table.

(Continued)

U.S. COMMERCIAL LANDINGS, BY SPECIES, 1980 AND 1981 (1) - Continued

| Species | 1980 | | 1981 | | 5-year average (1977-81) |
|---|---|---|---|---|---|
| Fish - continued | Thousand pounds | Thousand dollars | Thousand pounds | Thousand dollars | Thousand pounds |
| Salmon, Pacific - cont.: | | | | | |
| Pink | 253,541 | 90,757 | 257,106 | 111,291 | 211,599 |
| Red or sockeye | 207,551 | 131,354 | 226,173 | 192,513 | 162,618 |
| Silver or coho | 39,270 | 43,073 | 35,210 | 33,287 | 34,977 |
| Total | 613,811 | 352,277 | 648,440 | 438,247 | 507,700 |
| Scup or porgy | 20,027 | 7,947 | 19,994 | 7,850 | 20,230 |
| Sea bass: | | | | | |
| Black | 3,953 | 2,688 | 3,732 | 2,757 | 4,611 |
| White | 879 | 1,537 | 768 | 1,057 | 882 |
| Sea trout: | | | | | |
| Gray | 35,070 | 7,324 | 26,376 | 9,078 | 26,427 |
| Spotted | 4,379 | 3,171 | 3,972 | 3,359 | 4,152 |
| White | 1,196 | 265 | 1,145 | 279 | 1,121 |
| Sharks: | | | | | |
| Dogfish | 16,759 | 1,416 | 18,394 | 1,473 | 13,878 |
| Other | 4,486 | 1,634 | 4,885 | 1,923 | 3,140 |
| Snapper: | | | | | |
| Red | 4,949 | 7,839 | 5,827 | 10,105 | 5,541 |
| Other | 3,106 | 3,913 | 3,373 | 4,519 | 2,811 |
| Striped bass | 4,536 | 4,902 | 3,863 | 5,272 | 4,306 |
| Swordfish | 9,175 | 17,764 | 8,981 | 20,350 | 7,519 |
| Tilefish | (2) | (2) | 8,595 | 7,544 | (2) |
| Tuna: | | | | | |
| Albacore | 15,872 | 12,717 | 29,329 | 26,715 | 25,923 |
| Bigeye | 2,277 | 1,378 | 2,766 | 1,731 | 2,108 |
| Black skipjack | - | - | 40 | 6 | (2) |
| Bluefin | 7,991 | 7,086 | 4,774 | 3,787 | 11,664 |
| Little | 535 | 100 | 246 | 75 | 235 |
| Skipjack | 179,443 | 96,155 | 133,316 | 70,519 | 135,172 |
| Yellowfin | 192,182 | 115,096 | 170,269 | 102,979 | 195,821 |
| Unclassified | 1,132 | 593 | 409 | 255 | 901 |
| Total | 399,432 | 233,125 | 341,149 | 206,067 | 371,833 |
| Warsaw | 112 | 62 | 296 | 180 | 177 |
| Whiting | 35,571 | 6,113 | 36,544 | 7,379 | 40,753 |
| Wolffish | 1,983 | 276 | 1,633 | 283 | 1,518 |
| Other marine finfishes: | | | | | |
| Atlantic and Gulf | 175,941 | 36,726 | 137,784 | 28,636 | - |
| Pacific | 36,887 | 11,435 | 15,201 | 7,281 | - |
| Other freshwater finfishes | 111,337 | 34,671 | 108,074 | 36,571 | - |
| Total Fish | 5,328,414 | 1,154,908 | 4,825,955 | 1,195,704 | - |
| Shellfish et al. | | | | | |
| Clams: | | | | | |
| Hard | 13,370 | 44,068 | 18,118 | 51,169 | 14,455 |
| Ocean quahog | 33,832 | 10,187 | 36,107 | 10,184 | 29,235 |
| Soft | 8,948 | 15,391 | 8,072 | 13,906 | 9,276 |
| Surf | 37,737 | 19,107 | 46,100 | 23,466 | 41,804 |
| Other | 1,482 | 1,470 | 12,234 | 8,420 | 3,614 |
| Total | 95,369 | 90,223 | 120,631 | 107,145 | 98,384 |
| Crabs: | | | | | |
| Blue, hard | 163,206 | 35,167 | 195,114 | 46,441 | 155,648 |
| Dungeness | 38,278 | 21,613 | 35,576 | 29,085 | 42,434 |
| King | 185,624 | 168,694 | 88,054 | 157,667 | 131,591 |
| Snow (tanner) | 121,674 | 55,161 | 107,474 | 47,348 | 117,675 |
| Other | 14,329 | 10,715 | 19,777 | 16,033 | 13,846 |
| Total | 523,111 | 291,350 | 445,995 | 296,574 | 461,194 |

See notes at end of table.

(Continued)

U.S. COMMERCIAL LANDINGS, BY SPECIES, 1980 AND 1981 (1) - Continued

| Species | 1980 | | 1981 | | 5-year average (1977-81) |
|---|---|---|---|---|---|
| Shellfish et al. - continued: | Thousand pounds | Thousand dollars | Thousand pounds | Thousand dollars | Thousand pounds |
| Lobsters: | | | | | |
| American | 36,952 | 75,233 | 37,494 | 86,506 | 35,551 |
| Spiny | 6,861 | 14,801 | 6,619 | 19,422 | 5,979 |
| Oysters | 49,081 | 70,075 | 50,052 | 68,553 | 48,845 |
| Scallops: | | | | | |
| Bay | 968 | 3,894 | 670 | 2,427 | 1,297 |
| Calico | - | - | 14,641 | 13,907 | 3,513 |
| Sea | 28,752 | 110,429 | 30,277 | 111,216 | 29,297 |
| Shrimp: | | | | | |
| New England | 731 | 477 | 2,271 | 1,438 | 984 |
| South Atlantic | 32,996 | 57,399 | 16,514 | 32,469 | 23,988 |
| Gulf | 208,280 | 302,077 | 268,190 | 401,400 | 239,453 |
| Pacific | 97,697 | 42,741 | 67,496 | 27,888 | 121,504 |
| Other | 3 | 3 | 95 | 238 | 24 |
| Total | 339,707 | 402,697 | 354,566 | 463,433 | 385,953 |
| Squid: | | | | | |
| Atlantic | 9,794 | 3,177 | 6,579 | 2,343 | 7,794 |
| Pacific | 25,202 | 2,241 | 47,703 | 4,870 | 33,002 |
| Other shellfish | 38,143 | 18,174 | 35,887 | 15,639 | - |
| Total shellfish et al. | 1,153,940 | 1,082,294 | 1,151,114 | 1,192,035 | - |
| Grand total | 6,482,354 | 2,237,202 | 5,977,069 | 2,387,739 | - |

(1) Landings are reported in round (live) weight for all items except univalve and bivalve mollusks, such as clams, oysters, and scallops, which are reported in weight of meats (excluding the shell). (2) Data not available.

Note:--Data are preliminary. Data do not include landings by U.S.-flag vessels at Puerto Rico and others ports outside the 50 States, or catch by U.S.-flag vessels unloaded onto foreign vessels within the U.S. FCZ (joint venture). Therefore, they will not agree with "U.S. Commercial Landings" table on page 8. Data do not include production of aquaculture, except oysters and clams.

U.S. COMMERCIAL LANDINGS, BY REGIONS, 1980 AND 1981 (1)

| Region | 1980 | | 1981 | |
|---|---|---|---|---|
| | Thousand pounds | Thousand dollars | Thousand pounds | Thousand dollars |
| New England | 788,089 | 327,299 | 696,997 | 355,850 |
| Middle Atlantic | 244,034 | 96,594 | 227,627 | 95,275 |
| Chesapeake | 717,086 | 129,651 | 603,034 | 125,764 |
| South Atlantic | 473,457 | 148,377 | 543,006 | 138,498 |
| Gulf | 1,979,115 | 463,205 | 1,699,821 | 553,730 |
| Pacific Coast and Alaska | 2,140,278 | 1,025,255 | 2,069,635 | 1,063,449 |
| Great Lakes | 44,032 | 14,021 | 38,820 | 11,739 |
| Hawaii | 11,435 | 11,870 | 13,396 | 18,338 |
| Other | 84,828 | 20,930 | 84,733 | 25,096 |
| Total | 6,482,354 | 2,237,202 | 5,977,069 | 2,387,739 |

(1) Landings are reported in round (live) weight for all items except univalve and bivalve mollusks, such as clams, oysters, and scallops, which are reported in weight of meats (excluding the shell).

Note:--Data are preliminary. Data do not include landings by U.S.-flag vessels at Puerto Rico and other parts outside the 50 States, or catch by U.S.-flag vessels unloaded onto foreign vessels within the U.S. FCZ (joint venture). Therefore, they will not agree with "U.S. Commercial Landings" table on page 8. Data do not include products of aquaculture, except oysters and clams.

U.S. COMMERCIAL LANDINGS, BY STATES, 1980 AND 1981 (1)

| State | 1980 | | 1981 | | Record landings | |
|---|---|---|---|---|---|---|
| | Thousand pounds | Thousand dollars | Thousand pounds | Thousand dollars | Year | Thousand pounds |
| Alabama | 26,605 | 25,575 | 33,677 | 44,148 | 1973 | 39,749 |
| Alaska | 1,053,896 | 560,603 | 975,245 | 639,797 | 1980 | 1,053,896 |
| Arkansas | 18,306 | 4,923 | 19,060 | 6,306 | - | (2) |
| California | 804,276 | 323,393 | 775,171 | 275,196 | 1936 | 1,760,183 |
| Connecticut | 5,198 | 4,675 | 1,272 | 2,128 | 1930 | 88,012 |
| Delaware | 4,074 | 1,969 | 3,030 | 1,662 | 1953 | 367,500 |
| Florida | 191,470 | 124,834 | 215,281 | 172,726 | 1938 | 241,443 |
| Georgia | 19,427 | 20,061 | 18,589 | 13,158 | 1927 | 47,607 |
| Hawaii | 11,435 | 11,870 | 13,396 | 18,338 | 1954 | 20,610 |
| Idaho | 120 | 20 | 496 | 28 | - | (2) |
| Illinois | 4,587 | 1,103 | 4,453 | 994 | - | (2) |
| Indiana | 127 | 112 | 185 | 129 | - | (2) |
| Iowa | 3,741 | 900 | 3,741 | 945 | - | (2) |
| Kansas | 170 | 39 | 170 | 41 | - | (2) |
| Louisiana | 1,423,374 | 177,994 | 1,168,597 | 193,549 | 1978 | 1,673,922 |
| Maine | 244,686 | 92,697 | 238,107 | 103,945 | 1950 | 356,266 |
| Maryland | 79,571 | 44,658 | 115,115 | 56,640 | 1890 | 141,607 |
| Massachusetts | 438,382 | 178,602 | 369,640 | 196,854 | 1948 | 649,696 |
| Michigan | 10,455 | 4,822 | 12,823 | 5,647 | 1930 | 35,580 |
| Minnesota | 10,317 | 2,128 | 8,236 | 1,960 | - | (2) |
| Mississippi | 337,765 | 26,601 | 264,891 | 30,159 | 1971 | 400,576 |
| Missouri | 970 | 220 | 970 | 231 | - | (2) |
| Nebraska | 111 | 28 | 111 | 29 | - | (2) |
| New Hampshire | 19,050 | 5,182 | 7,690 | 4,162 | - | (2) |
| New Jersey | 200,634 | 49,879 | 188,396 | 48,283 | 1956 | 540,060 |
| New York | 39,725 | 45,058 | 36,522 | 45,555 | 1880 | 335,000 |
| North Carolina | 356,193 | 68,784 | 432,006 | 57,520 | 1981 | 432,006 |
| North Dakota | 727 | 111 | 727 | 117 | - | (2) |
| Ohio | 10,490 | 3,351 | 7,577 | 2,198 | 1936 | 31,083 |
| Oregon | 126,316 | 55,748 | 134,626 | 52,461 | 1978 | 134,657 |
| Pennsylvania | 347 | 312 | 343 | 189 | - | (2) |
| Rhode Island | 80,773 | 46,143 | 80,288 | 48,761 | 1889 | 128,056 |
| South Carolina | 21,183 | 20,448 | 16,232 | 14,161 | 1965 | 26,611 |
| South Dakota | 2,259 | 340 | 2,259 | 357 | - | (2) |
| Texas | 98,478 | 153,880 | 113,108 | 174,787 | 1960 | 237,684 |
| Virginia | 637,515 | 84,993 | 487,919 | 69,124 | 1972 | 666,180 |
| Washington | 155,790 | 85,511 | 184,593 | 95,995 | 1941 | 197,253 |
| West Virginia | 31 | 15 | 31 | 16 | - | (2) |
| Wisconsin | 30,745 | 5,901 | 38,231 | 5,502 | - | (2) |
| Other | 13,035 | 3,719 | 4,265 | 3,941 | - | (2) |
| Total | 6,482,354 | 2,237,202 | 5,977,069 | 2,387,739 | 1980 | 6,482,354 |

(1) Landings are reported in round (live) weight for all items except univalve and bivalve mollusks, such as clams, oysters, and scallops, which are reported in weight of meats (excluding the shell).

(2) Not determined.

Note:--Data are preliminary. Data do not include landings by U.S.-flag vessels at Puerto Rico and other ports outside the 50 States, or catch by U.S.-flag vessels unloaded onto foreign vessels within the U.S. FCZ (joint venture). Therefore, they will not agree with "U.S. Commercial Landings" table on page 8. Data do not include production of aquaculture, except oysters and clams.

COMMERICAL FISHERY LANDINGS AND VALUE AT MAJOR U.S. PORTS, 1978-81

| Port | Quantity | | | | Port | Value | | | |
|---|---|---|---|---|---|---|---|---|---|
| | 1978 | 1979 | 1980 | 1981 | | 1978 | 1979 | 1980 | 1981 |
| | Million pounds | | | | | Million dollars | | | |
| Cameron, La. | 606.0 | 593.1 | 479.8 | 447.6 | Kodiak, Alaska | 92.6 | 73.4 | 84.6 | *132.9 |
| Los Angeles Area, Calif. (1) | 312.8 | 378.2 | 380.1 | 373.6 | Los Angeles Area, Calif. (1) | 92.1 | 89.3 | 121.9 | 110.5 |
| Empire-Venice, La. | 292.8 | 278.9 | 275.4 | 221.5 | San Diego, Calif. | 69.8 | 62.7 | 110.6 | 83.0 |
| Pascagoula-Moss Point, Miss. | 334.8 | 283.8 | 291.9 | 220.5 | New Bedford, Mass. | 54.6 | 67.4 | 71.3 | 77.9 |
| Dulac-Chauvin, La. | 300.2 | 246.3 | 265.8 | 203.9 | Dutch Harbor-Unalaska, Alaska | 99.7 | 92.7 | 91.3 | 57.6 |
| Kodiak, Alaska | 177.4 | 150.5 | 207.4 | 193.2 | Dulac-Chauvin, La. | 46.7 | 41.5 | 50.0 | 51.5 |
| Beaufort-Morehead City, N.C. | 108.7 | 218.5 | 171.5 | 177.0 | Brownsville-Port Isabel, Tex. | 43.0 | 50.0 | 42.2 | 48.4 |
| Gloucester, Mass. | 185.4 | 160.2 | 210.0 | 166.9 | Gloucester, Mass. | 28.9 | 29.7 | 34.7 | 45.1 |
| San Diego, Calif. | 168.3 | 156.6 | 199.1 | 149.7 | Aransas Pass-Rockport, Tex. | 39.0 | 40.0 | 40.2 | 41.0 |
| New Bedford, Mass. | 71.9 | 86.0 | 99.6 | 76.2 | Bayou La Batre, Ala. | 25.1 | 34.9 | 23.7 | 31.4 |
| Dutch Harbor-Unalaska, Alaska | 125.8 | 136.8 | 136.5 | 73.0 | Empire-Venice, La. | 26.4 | 28.8 | 31.0 | 30.5 |
| Ketchikan, Alaska | 55.7 | 22.1 | 17.3 | 52.4 | Cameron, La. | 34.2 | 34.3 | 33.3 | 29.9 |
| Monterey, Calif. | (2) | (2) | (2) | 49.8 | Akutan, Alaska | 21.2 | 28.2 | 42.8 | 29.2 |
| Port Hueneme, Oxnard, and Ventura, Calif. | (2) | (2) | (2) | 48.1 | Ketchikan, Alaska | 26.4 | 16.4 | 8.7 | 28.7 |
| Newport, Oreg. | 33.1 | 36.0 | 36.4 | 46.7 | Key West, Fla. | 22.4 | 25.9 | 18.3 | 27.0 |
| Astoria, Oreg. | 45.6 | 40.4 | 39.8 | 44.8 | Freeport, Tex. | 28.0 | 25.0 | 19.9 | 26.8 |
| Rockland, Maine | 40.1 | 41.8 | 56.0 | 44.7 | Newport, Oreg. | 10.6 | 12.6 | 13.7 | 25.0 |
| Cape May-Wildwood, N.J. | 47.7 | 58.3 | 51.5 | 42.7 | Hampton Roads Area, Va. (3) | 24.3 | 31.1 | 27.5 | 22.8 |
| Pt. Judith, R.I. | 55.3 | 54.3 | 42.9 | 41.7 | Petersburg, Alaska | 17.5 | 23.7 | 17.0 | 22.0 |
| Akutan, Alaska | 17.2 | 38.2 | 58.9 | 40.6 | Lafitte-Barataria, La. | 11.5 | 16.6 | 14.8 | 20.8 |
| Portland, Maine | 45.9 | 59.6 | 54.9 | 39.9 | Cape May-Wildwood, N.J. | 25.1 | 32.2 | 26.9 | 20.5 |
| Petersburg, Alaska | 31.0 | 31.9 | 32.3 | 39.9 | Golden Meadow-Leeville, La. | 19.1 | 22.5 | 12.2 | 19.9 |
| Wanchese-Stumpy Point, N.C. | 20.5 | 34.6 | 39.5 | 39.0 | Delcambre, La. | 16.7 | 14.8 | 13.3 | 18.8 |
| Coos Bay-Charleston, Oreg. | 27.1 | 23.5 | 27.0 | 36.5 | Coos Bay-Charleston, Oreg. | 9.2 | 8.2 | 13.5 | 18.2 |
| San Francisco Area, Calif. | (2) | (2) | (2) | 35.7 | San Francisco Area, Calif. | (2) | (2) | (2) | 18.0 |
| Eureka, Calif. | 44.4 | 32.1 | 34.5 | 35.0 | Fort Myers, Fla. | 13.1 | 17.8 | 10.9 | 18.0 |
| Hampton Roads Area, Va. (3) | 31.2 | 27.2 | 23.8 | 29.1 | Beaufort-Morehead City, N.C. | 6.2 | 22.7 | 22.5 | 17.2 |
| Brownsville-Port Isabel, Tex. | 24.0 | 22.0 | 21.6 | 28.9 | Portland, Maine | 7.5 | 10.1 | 13.6 | 17.0 |
| Boston, Mass. | 27.3 | 30.3 | 34.4 | 28.4 | Pascagoula-Moss Point, Miss. | 19.4 | 18.1 | 18.9 | 16.8 |
| Bellingham, Wash. | 38.0 | 40.0 | 40.0 | 27.0 | Cape Canaveral, Fla. | (2) | (2) | (2) | 15.9 |
| Bayou La Batre, Ala. | 22.2 | 21.8 | 19.9 | 25.1 | Seattle, Wash. | 6.3 | 6.6 | 6.0 | 15.0 |
| Seattle, Wash. | 16.3 | 16.5 | 16.0 | 25.0 | Astoria, Oreg. | 20.1 | 18.2 | 13.7 | 15.0 |
| Aransas Pass-Rockport, Tex. | 23.0 | 19.0 | 22.1 | 24.4 | Eureka, Calif. | 19.5 | 14.3 | 11.0 | 13.5 |
| Westport, Wash. | 30.0 | 25.0 | 23.0 | 24.0 | Rockland, Maine | (2) | (2) | 8.4 | 13.4 |
| Ocean City, Md. | 14.4 | 18.4 | 22.3 | 23.4 | Galveston, Tex. | (2) | (2) | (2) | 13.3 |
| Provincetown, Mass. | 19.9 | 23.4 | 25.8 | 19.3 | Point Judith, R.I. | 9.5 | 11.0 | 11.5 | 13.2 |
| Golden Meadow-Leeville, La | 22.1 | 15.6 | 15.4 | 18.5 | Wanchese-Stumpy Point, N.C. | 8.5 | 13.0 | 13.0 | 12.7 |
| Atlantic City, N.J. | (2) | (2) | (2) | 18.1 | Boston, Mass. | 8.1 | 10.7 | 12.3 | 12.4 |
| Key West, Fla. | 15.0 | 16.5 | 15.4 | 18.0 | Apalachicola, Fla. | 13.3 | 10.1 | 11.3 | 12.3 |
| Oriental-Vandemere, N.C. | (2) | 19.5 | 19.8 | 17.1 | Bellingham, Wash. | 15.3 | 16.8 | 15.2 | 12.0 |
| Cape Canaveral, Fla. | (2) | (2) | (2) | 17.0 | Bon Secour-Gulf Shores, Ala. | 10.0 | 16.0 | 7.7 | 11.6 |
| Ilwaco, Wash. | (2) | (2) | (2) | 16.8 | Ocean City, Md. | 6.9 | 8.2 | 9.9 | 10.5 |
| Fort Bragg, Calif. | (2) | (2) | (2) | 15.7 | Monterey, Calif. | (2) | (2) | (2) | 10.4 |
| Crescent City, Calif. | (2) | (2) | (2) | 15.2 | Westport, Wash. | 12.5 | 10.8 | 11.6 | 10.0 |
| Fort Myers, Fla. | 15.2 | 15.9 | 13.5 | 15.0 | Provincetown, Mass. | 9.1 | 10.3 | 10.4 | 8.5 |
| Freeport, Tex. | 16.0 | 8.0 | 10.1 | 14.9 | Crescent City, Calif. | (2) | (2) | (2) | 8.2 |
| Lafitte-Barataria, La. | 13.1 | 10.4 | 11.1 | 14.7 | Port Arthur-Sabine, Tex. | (2) | (2) | (2) | 8.2 |
| Santa Barbara, Calif. | (2) | (2) | (2) | 14.1 | Atlantic City, N.J. | (2) | (2) | (2) | 7.9 |
| Apalachicola, Fla. | 12.4 | 10.4 | 11.6 | 12.0 | Grand Isle, La. | (2) | (2) | (2) | 7.8 |
| Delcambre, La. | (2) | (2) | 8.6 | 11.0 | Anacortes, Wash. | (2) | 6.1 | 6.4 | 7.2 |
| Point Pleasant, N.J. | 15.7 | 12.8 | 11.1 | 10.9 | Oriental-Vandemere, N.C. | (2) | 6.6 | 9.1 | 6.5 |
| Anacortes, Wash. | (2) | (2) | (2) | 9.5 | Fort Bragg, Calif. | (2) | (2) | (2) | 6.3 |
| Chincoteague, Va. | 13.0 | 12.3 | 15.9 | 9.0 | Santa Barbara, Calif. | (2) | (2) | (2) | 5.9 |
| Galveston, Tex. | (2) | (2) | (2) | 8.1 | Ilwaco, Wash. | (2) | (2) | (2) | 5.8 |
| Blaine, Wash. | 10.0 | 10.5 | 10.0 | 8.1 | Chincoteague, Va. | 6.1 | 6.5 | 8.0 | 5.1 |
| Brookings, Oreg. | 10.7 | 9.8 | 9.5 | 7.6 | Point Pleasant, N.J. | 5.9 | 6.8 | 5.0 | 4.7 |
| Cape Charles-Oyster, Va. | 10.8 | 9.7 | 8.1 | 7.5 | Darien-Bellville, Ga. | (2) | 8.7 | 7.5 | 4.6 |
| Grand Isle, La. | (2) | (2) | (2) | 7.1 | Port Hueneme, Oxnard, and Ventura, Calif. | (2) | (2) | (2) | 4.6 |
| Bon Secour-Gulf Shores, Ala. | (2) | (2) | (2) | 7.0 | Brookings, Oreg. | (2) | (2) | 3.8 | 3.8 |
| Darien-Bellville, Ga. | (2) | 9.0 | 8.2 | 6.2 | Blaine, Wash. | (2) | (2) | 4.0 | 3.6 |

(1) Previously called San Pedro, Calif. (2) Not available. (3) Previously called Hampton-Norfolk, Va.

*Record. Record quantity was 848.2 million lb landed in San Pedro, Calif., in 1960.

Note:--Data for some ports are estimated. To avoid disclosure of private enterprise, the following ports were not included: Fernandina Beach, Fla.; Intercoastal City and Morgan City, La.; Chatham and Sandwich, Mass.; Biloxi, Miss.; Port Monmouth-Belford, N.J.; Southport-Calabash, N.C.; Newport, R.I.; and Reedville, Va.

U.S. COMMERCIAL LANDINGS OF FISH AND SHELLFISH, 1972-81 (1)

| Year | Landings for human food | | Landings for industrial products (2) | | Total | |
|---|---|---|---|---|---|---|
| | Million pounds | Million dollars | Million pounds | Million dollars | Million pounds | Million dollars |
| 1972 | 2,435 | 702 | 2,371 | 46 | 4,806 | 748 |
| 1973 | 2,398 | 836 | 2,460 | 101 | 4,858 | 937 |
| 1974 | 2,496 | 844 | 2,471 | 88 | 4,967 | 932 |
| 1975 | 2,465 | 904 | 2,412 | 73 | 4,877 | 977 |
| 1976 | 2,775 | 1,257 | 2,613 | 92 | 5,388 | 1,349 |
| 1977 (3) | 2,900 | 1,404 | 2,298 | 111 | 5,198 | 1,515 |
| 1978 (3) | 3,177 | 1,733 | 2,851 | 121 | 6,028 | 1,854 |
| 1979 (3) | 3,318 | 2,093 | *2,949 | 141 | 6,267 | 2,234 |
| 1980 (3) | *3,654 | 2,092 | 2,828 | 145 | *6,482 | 2,237 |
| 1981 (3) | 3,547 | 2,277 | 2,430 | 111 | 5,977 | 2,388 |

(1) Statistics on landings are shown in round weight for all items except univalve and bivalve mollusks such as clams, oysters, and scallops, which are shown in weight of meats (excluding the shell). (2) Processed into meal, oil, fish solubles, and shell products, and used as bait or animal food. (3) Data are preliminary.

Note:--Joint venture catches are included in 1979. Data do not include landings outside the 50 States or products of aquaculture, except oysters and clams. *Record.

DISPOSITION OF U.S. COMMERCIAL LANDINGS, 1980 AND 1981

| End Use | 1980 | | 1981 | |
|---|---|---|---|---|
| | Million pounds | Percent | Million pounds | Percent |
| Fresh and frozen: | | | | |
| For human food | 2,495 | 38.5 | 2,435 | 40.7 |
| For bait and animal food | 126 | 1.9 | 112 | 1.9 |
| Total | 2,621 | 40.4 | 2,547 | 42.6 |
| Canned: | | | | |
| For human food | 1,063 | 16.4 | 1,022 | 17.1 |
| For bait and animal food | 98 | 1.5 | 96 | 1.6 |
| Total | 1,161 | 17.9 | 1,118 | 18.7 |
| Cured for human food | 96 | 1.5 | 90 | 1.5 |
| Reduction to meal, oil, etc. | 2,604 | 40.2 | 2,222 | 37.2 |
| Grand total | 6,482 | 100.0 | 5,977 | 100.0 |

Note:--Data are preliminary.

DISPOSITION OF U.S. COMMERCIAL LANDINGS, BY MONTHS, 1981

| Month | Landings for human food | | Landings for industrial products (1) | | Total | |
|---|---|---|---|---|---|---|
| | Million pounds | Percent | Million pounds | Percent | Million pounds | Percent |
| January | 144 | 4.1 | 21 | 0.9 | 165 | 2.8 |
| February | 139 | 3.9 | 9 | .4 | 148 | 2.4 |
| March | 223 | 6.3 | 16 | .7 | 239 | 4.0 |
| April | 293 | 8.3 | 127 | 5.2 | 420 | 7.0 |
| May | 326 | 9.2 | 330 | 13.6 | 656 | 11.0 |
| June | 345 | 9.7 | 359 | 14.8 | 704 | 11.8 |
| July | 667 | 18.8 | 511 | 21.0 | 1,178 | 19.7 |
| August | 473 | 13.3 | 358 | 14.7 | 831 | 13.9 |
| September | 289 | 8.2 | 342 | 14.0 | 631 | 10.6 |
| October | 271 | 7.6 | 171 | 7.0 | 442 | 7.4 |
| November | 205 | 5.8 | 104 | 4.3 | 309 | 5.2 |
| December | 172 | 4.8 | 82 | 3.4 | 254 | 4.2 |
| Total | 3,547 | 100.0 | 2,430 | 100.0 | 5,977 | 100.0 |

(1) Processed into meal, oil, solubles, and shell products, and used as bait and animal food.

COMMERCIAL LANDINGS OF FISH AND SHELLFISH BY U.S. FISHING CRAFT: BY SPECIES, BY DISTANCE CAUGHT OFF U.S. SHORES AND IN INTERNATIONAL WATERS, 1981 (1)

| Species | Distance caught off U.S. shores | | | | International waters (Includes catch off foreign coasts) | | Total | |
|---|---|---|---|---|---|---|---|---|
| | 0 to 3 miles (2) | | 3 to 200 miles | | | | | |
| Fish | Thousand pounds | Thousand dollars | Thousand pounds | Thousand dollars | Thousand pounds | Thousand dollars | Thousand pounds | Thousand dollars |
| Alewives: | | | | | | | | |
| Atlantic and Gulf. | 8,236 | 667 | 105 | 4 | - | - | 8,341 | 671 |
| Great Lakes. . . . | 15,479 | 264 | - | - | - | - | 15,479 | 264 |
| Anchovies. . . . . | 14,210 | 541 | 112,399 | 4,268 | - | - | 126,609 | 4,809 |
| Bluefish . . . . . | 10,491 | 2,107 | 6,168 | 1,127 | - | - | 16,659 | 3,234 |
| Bonito . . . . . | 2,955 | 837 | 5,070 | 1,304 | 9,265 | 2,545 | 17,290 | 4,686 |
| Butterfish . . . . . | 1,504 | 556 | 6,282 | 2,090 | - | - | 7,786 | 2,646 |
| Cod: | | | | | | | | |
| Atlantic . . . . . | 10,039 | 2,537 | 110,021 | 34,373 | 2,614 | 553 | 122,674 | 37,463 |
| Pacific. . . . . | 19,771 | 4,933 | 22,090 | 2,324 | - | - | 41,861 | 7,257 |
| Croaker. . . . . | 11,808 | 4,110 | 6,258 | 2,098 | - | - | 18,066 | 6,208 |
| Cusk . . . . . | 65 | 13 | 3,865 | 939 | 101 | 23 | 4,031 | 975 |
| Flounders: | | | | | | | | |
| Atlantic and Gulf: | | | | | | | | |
| Blackback. . . . | 7,791 | 3,040 | 33,152 | 14,059 | - | - | 40,943 | 17,099 |
| Fluke. . . . . | 7,395 | 5,422 | 16,435 | 11,395 | - | - | 23,830 | 16,817 |
| Yellowtail . . . | 3,022 | 1,497 | 31,036 | 15,335 | 4 | 2 | 34,062 | 16,834 |
| Other. . . . . | 2,256 | 939 | 37,821 | 17,340 | 105 | 84 | 40,182 | 18,363 |
| Pacific. . . . . | 6,530 | 1,755 | 101,163 | 17,766 | 2,801 | 649 | 110,494 | 20,170 |
| Total. . . . . | 26,994 | 12,653 | 219,607 | 75,895 | 2,910 | 735 | 249,511 | 89,283 |
| Groupers . . . . . | 203 | 228 | 12,002 | 12,461 | 265 | 311 | 12,470 | 13,000 |
| Haddock. . . . . | 364 | 151 | 54,390 | 21,591 | 570 | 272 | 55,324 | 22,014 |
| Hake: | | | | | | | | |
| Pacific (whiting). | 9,246 | 200 | 98,009 | 6,471 | - | - | 107,255 | 6,671 |
| Red. . . . . | 377 | 66 | 4,959 | 834 | 2 | (3) | 5,338 | 900 |
| White. . . . . | 295 | 48 | 11,671 | 2,164 | 211 | 50 | 12,177 | 2,262 |
| Halibut. . . . . | 13,722 | 10,647 | 13,164 | 10,847 | 4 | 4 | 26,890 | 21,498 |
| Herring, sea: | | | | | | | | |
| Atlantic . . . . . | 108,416 | 6,096 | 30,698 | 1,524 | - | - | 139,114 | 7,620 |
| Pacific. . . . . | 107,915 | 22,921 | - | - | - | - | 107,915 | 22,921 |
| Jack mackerel. . . . | 2,947 | 265 | 28,079 | 2,527 | - | - | 31,026 | 2,792 |
| Lingcod. . . . . | 631 | 146 | 6,637 | 1,550 | 264 | 62 | 7,532 | 1,758 |
| Mackerel: | | | | | | | | |
| Atlantic . . . . . | 985 | 211 | 4,861 | 609 | - | - | 5,846 | 820 |
| King . . . . . | 1,187 | 1,044 | 6,036 | 5,177 | - | - | 7,223 | 6,221 |
| Pacific. . . . . | 9,345 | 841 | 79,210 | 7,021 | - | - | 88,555 | 7,862 |
| Spanish. . . . . | 2,298 | 732 | 3,869 | 1,222 | - | - | 6,167 | 1,954 |

See footnotes at end of table.

(Continued)

COMMERCIAL LANDINGS OF FISH AND SHELLFISH BY U.S. FISHING CRAFT: BY SPECIES, BY DISTANCE CAUGHT OFF U.S. SHORES AND IN INTERNATIONAL WATERS, 1981 (1) - Continued

| Species | Distance caught off U.S. shores | | | | International waters (Includes catch off foreign coasts) | | Total | |
|---|---|---|---|---|---|---|---|---|
| | 0 to 3 miles (2) | | 3 to 200 miles | | | | | |
| Fish - continued: | Thousand pounds | Thousand dollars | Thousand pounds | Thousand dollars | Thousand pounds | Thousand dollars | Thousand pounds | Thousand dollars |
| Menhaden: | | | | | | | | |
| Atlantic | 834,413 | 31,877 | 52,807 | 1,699 | - | - | 887,220 | 33,576 |
| Gulf | 858,381 | 33,545 | 359,808 | 14,189 | - | - | 1,218,189 | 47,734 |
| Total | 1,692,794 | 65,422 | 412,615 | 15,888 | - | - | 2,105,409 | 81,310 |
| Mullet | 36,656 | 8,133 | 1 | (3) | - | - | 36,657 | 8,133 |
| Ocean perch: | | | | | | | | |
| Atlantic | 29 | 9 | 16,925 | 4,816 | 1,637 | 437 | 18,591 | 5,262 |
| Pacific | 2 | 1 | 5,398 | 904 | - | - | 5,400 | 905 |
| Pollock: | | | | | | | | |
| Atlantic | 610 | 138 | 36,440 | 8,333 | 282 | 65 | 37,332 | 8,536 |
| Alaska | 3,387 | 489 | 130,413 | 8,531 | - | - | 133,800 | 9,020 |
| Rockfishes | 5,437 | 1,237 | 113,305 | 19,078 | 58 | 14 | 118,800 | 20,329 |
| Sablefish | 954 | 341 | 27,139 | 5,990 | 618 | 220 | 28,711 | 6,551 |
| Salmon, Pacific: | | | | | | | | |
| Chinook or king | 24,515 | 40,970 | 6,516 | 15,653 | 40 | 110 | 31,071 | 56,733 |
| Chum or keta | 98,874 | 44,419 | 6 | 4 | - | - | 98,880 | 44,423 |
| Pink | 256,072 | 110,701 | 1,034 | 590 | - | - | 257,106 | 111,291 |
| Red or sockeye | 226,168 | 192,508 | 5 | 5 | - | - | 226,173 | 192,513 |
| Silver or coho | 29,703 | 26,314 | 5,472 | 6,921 | 35 | 52 | 35,210 | 33,287 |
| Total | 635,332 | 414,912 | 13,033 | 23,173 | 75 | 162 | 648,440 | 438,247 |
| Scup or porgy | 4,660 | 2,272 | 15,334 | 5,578 | - | - | 19,994 | 7,850 |
| Sea bass: | | | | | | | | |
| Black | 328 | 314 | 3,404 | 2,443 | - | - | 3,732 | 2,757 |
| White | 39 | 54 | - | - | 729 | 1,003 | 768 | 1,057 |
| Sea trout: | | | | | | | | |
| Gray | 14,251 | 5,732 | 12,125 | 3,346 | - | - | 26,376 | 9,078 |
| Spotted | 3,972 | 3,359 | - | - | - | - | 3,972 | 3,359 |
| White | 493 | 135 | 652 | 144 | - | - | 1,145 | 279 |
| Sharks: | | | | | | | | |
| Dogfish | 5,748 | 525 | 12,646 | 948 | - | - | 18,394 | 1,473 |
| Other | 1,338 | 568 | 3,538 | 1,351 | 9 | 4 | 4,885 | 1,923 |
| Snapper: | | | | | | | | |
| Red | 77 | 125 | 5,566 | 9,644 | 184 | 336 | 5,827 | 10,105 |
| Other | 389 | 511 | 2,934 | 3,940 | 50 | 68 | 3,373 | 4,519 |
| Striped bass | 3,784 | 5,111 | 79 | 161 | - | - | 3,863 | 5,272 |
| Swordfish | 36 | 110 | 8,246 | 18,748 | 699 | 1,492 | 8,981 | 20,350 |
| Tilefish | 1 | 1 | 8,594 | 7,543 | - | - | 8,595 | 7,544 |

See footnotes at end of table.

(Continued)

COMMERCIAL LANDINGS OF FISH AND SHELLFISH BY U.S. FISHING CRAFT: BY SPECIES, BY DISTANCE CAUGHT OFF U.S. SHORES AND IN INTERNATIONAL WATERS, 1981 (1) - Continued

| Species | Distance caught off U.S. shores | | | | International waters (Includes catch off foreign coasts) | | Total | |
|---|---|---|---|---|---|---|---|---|
| | 0 to 3 miles (2) | | 3 to 200 miles | | | | | |
| Fish - continued: | Thousand pounds | Thousand dollars | Thousand pounds | Thousand dollars | Thousand pounds | Thousand dollars | Thousand pounds | Thousand dollars |
| Tuna: | | | | | | | | |
| Albacore | 113 | 19 | 21,084 | 19,351 | 8,136 | 7,349 | 29,333 | 26,719 |
| Bigeye | - | - | 113 | 165 | 4,597 | 2,699 | 4,710 | 2,864 |
| Black skipjack | - | - | - | - | 90 | 11 | 90 | 11 |
| Bluefin | 31 | 19 | 3,094 | 2,795 | 1,649 | 973 | 4,774 | 3,787 |
| Little | 96 | 21 | 150 | 54 | 18 | 3 | 264 | 78 |
| Skipjack | 48 | 36 | 7,057 | 4,854 | 193,207 | 98,298 | 200,312 | 103,188 |
| Yellowfin | 310 | 43 | 3,024 | 4,444 | 246,398 | 144,085 | 249,732 | 148,572 |
| Unclassified | 3 | 1 | 405 | 253 | 255 | 153 | 663 | 407 |
| Total | 601 | 139 | 34,927 | 31,916 | 454,350 | 253,571 | 489,878 | 285,626 |
| Warsaw | - | - | 296 | 180 | - | - | 296 | 180 |
| Whiting | 2,280 | 492 | 34,258 | 6,885 | 6 | 2 | 36,544 | 7,379 |
| Wolffish | 94 | 18 | 1,532 | 264 | 7 | 1 | 1,633 | 283 |
| Other marine finfishes: | | | | | | | | |
| Atlantic and Gulf | 77,454 | 20,986 | 60,419 | 7,669 | 10 | 6 | 137,883 | 28,661 |
| Pacific | 10,364 | 3,238 | 12,892 | 4,466 | 33 | 26 | 23,289 | 7,730 |
| Other freshwater fishes | 108,074 | 36,571 | - | - | - | - | 108,074 | 36,571 |
| Total fish | 2,988,667 | 643,757 | 1,818,161 | 390,359 | 474,953 | 261,962 | 5,281,781 | 1,296,078 |
| Shellfish et al. | | | | | | | | |
| Clams: | | | | | | | | |
| Hard | 18,073 | 51,045 | 45 | 124 | - | - | 18,118 | 51,169 |
| Ocean quahog | 903 | 172 | 35,204 | 10,012 | - | - | 36,107 | 10,184 |
| Soft | 8,072 | 13,906 | - | - | - | - | 8,072 | 13,906 |
| Surf | 8,739 | 3,074 | 37,361 | 20,392 | - | - | 46,100 | 23,466 |
| Other | 12,234 | 8,420 | - | - | - | - | 12,234 | 8,420 |
| Total | 48,021 | 76,617 | 72,610 | 30,528 | - | - | 120,631 | 107,145 |
| Crabs: | | | | | | | | |
| Blue, hard | 195,056 | 46,426 | 58 | 15 | - | - | 195,114 | 46,441 |
| Dungeness | 28,276 | 23,276 | 7,300 | 5,809 | - | - | 35,576 | 29,085 |
| King | 17,611 | 31,533 | 70,443 | 126,134 | - | - | 88,054 | 157,667 |
| Snow (tanner) | 9,973 | 5,695 | 97,501 | 41,653 | - | - | 107,474 | 47,348 |
| Other | 8,768 | 9,208 | 11,009 | 6,825 | - | - | 19,777 | 16,033 |
| Total | 259,684 | 116,138 | 186,311 | 180,436 | - | - | 445,995 | 296,574 |

See footnotes at end of table.

(Continued)

COMMERCIAL LANDINGS OF FISH AND SHELLFISH BY U.S. FISHING CRAFT: BY SPECIES, BY DISTANCE CAUGHT OFF U.S. SHORES AND IN INTERNATIONAL WATERS, 1981 (1) - Continued

| Species | Distance caught off U.S. shores | | | | International waters (Includes catch off foreign coasts) | | Total | |
|---|---|---|---|---|---|---|---|---|
| | 0 to 3 miles (2) | | 3 to 200 miles | | | | | |
| Shellfish et al. - continued: | Thousand pounds | Thousand dollars | Thousand pounds | Thousand dollars | Thousand pounds | Thousand dollars | Thousand pounds | Thousand dollars |
| Lobsters: | | | | | | | | |
| American | 33,058 | 75,012 | 4,436 | 11,494 | - | - | 37,494 | 86,506 |
| Spiny | 2,797 | 7,397 | 3,372 | 10,895 | 450 | 1,130 | 6,619 | 19,422 |
| Oysters | 50,052 | 68,553 | - | - | - | - | 50,052 | 68,553 |
| Scallops: | | | | | | | | |
| Bay | 670 | 2,427 | - | - | - | - | 670 | 2,427 |
| Calico | - | - | 14,641 | 13,907 | - | - | 14,641 | 13,907 |
| Sea | 5,353 | 9,809 | 24,914 | 101,376 | 10 | 31 | 30,277 | 111,216 |
| Shrimp: | | | | | | | | |
| New England | 404 | 313 | 1,867 | 1,125 | - | - | 2,271 | 1,438 |
| South Atlantic | 10,499 | 21,194 | 6,015 | 11,275 | - | - | 16,514 | 32,469 |
| Gulf | 93,890 | 117,266 | 174,300 | 284,134 | - | - | 268,190 | 401,400 |
| Pacific Coast | 27,327 | 7,680 | 40,169 | 20,208 | - | - | 67,496 | 27,888 |
| Other | 95 | 238 | - | - | - | - | 95 | 238 |
| Total | 132,215 | 146,691 | 222,351 | 316,742 | - | - | 354,566 | 463,433 |
| Squid: | | | | | | | | |
| Atlantic | 3,616 | 1,427 | 3,658 | 1,091 | - | - | 7,274 | 2,518 |
| Pacific | 45,004 | 4,512 | 2,726 | 373 | - | - | 47,730 | 4,885 |
| Other shellfish | 34,551 | 14,729 | 1,336 | 910 | 17,000 | 29,200 | 52,887 | 44,839 |
| Total shellfish et al. | 615,021 | 523,312 | 536,355 | 667,752 | 17,460 | 30,361 | 1,168,836 | 1,221,425 |
| Grand total | 3,603,688 | 1,167,069 | 2,354,516 | 1,058,111 | 492,413 | 292,323 | 6,450,617 | 2,517,503 |

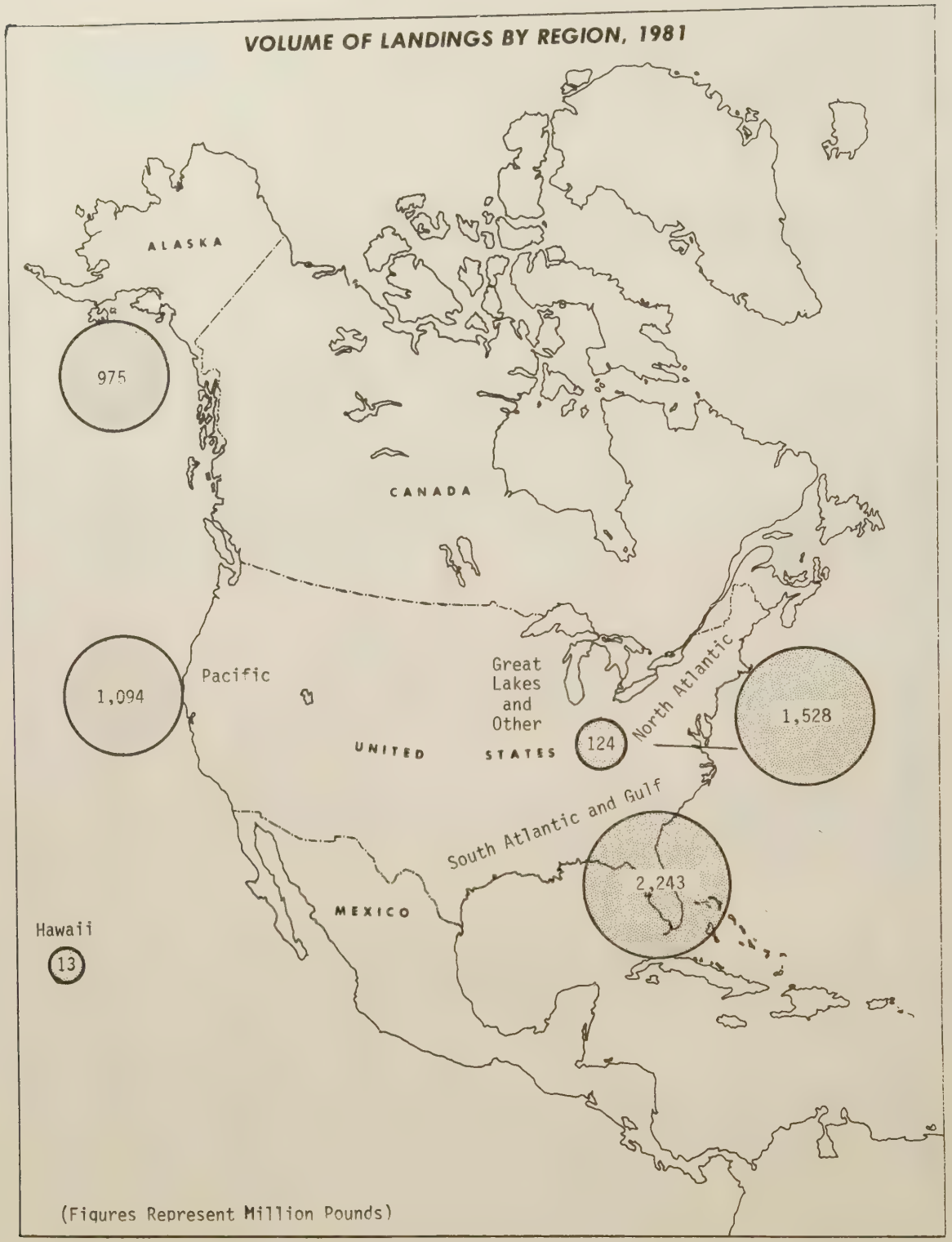
(1) Landings are reported in round (live) weight for all items, except univalve and bivalve mollusks, such as clams, oysters, and scallops, which are reported in weight of meats (excluding the shell).

(2) Includes all landings from the Great Lakes and other inland waters.

(3) Less than $500.

Note:--Data are preliminary. Data include landings by U.S.-flag vessels at Puerto Rico and other ports outside the 50 States or catch by U.S.-flag vessels unloaded onto foreign vessels within the U.S. FCZ (joint venture). Therefore, they will not agree with "U.S. Commercial Landings " table on page 1. Data do not include production of aquaculture, except oysters and clams.

# U. S. COMMERCIAL LANDINGS



GENERAL. The number of marine recreational fishermen has increased substantially in the last decade. Recent estimates indicate that there are 15-20 million recreational fishermen in the United States whose combined harvests account for approximately 30-35 percent of the total U.S. finfish harvest used for food. Expenditures by these fishermen for recreational fishing, the value of associated industries (such as tackle, boat and trailer manufacturers, and the party and charter boat industries), and the value of the recreational fishing experience itself are significant components of the U.S. economy.

DATA COLLECTION. Detailed statistical information on marine recreational fishing is required to support the objectives of the Magnuson Fishery Conservation and Management Act of 1976 (MFCMA, PL 94-265). The MFCMA mandates preparation of management plans that promote domestic commercial and recreational fisheries, utilizing the best available biological, economic, and social information. Although reliable data on commercial fisheries have been collected for many years, the lack of a continuous or systematic collection of marine recreational fishery data has resulted in an inadequate data base.

Previous marine recreational fishing surveys have employed either a survey of fishermen at home (household survey) or a survey of fishermen at the fishing location (creel census or intercept survey.) The majority of these efforts covered limited geographic areas, were seasonal in nature or addressed specific fisheries. The most significant problems of these surveys related to the high cost of the surveys and the reliability of the results. For example, previous surveys required fishermen to recall information up to one year in the past. Biases introduced by the inability of fishermen to accurately recall the number and size of fish caught, and to correctly identify the species caught, raised questions regarding the reliability of the data. These questions together with other inadequacies in statistical design prompted the NMFS to examine ways of improving the survey design to provide more acceptable data.

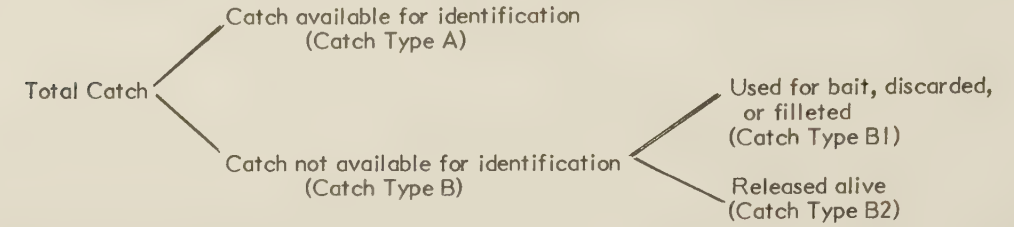
CURRENT APPROACH. An optimum survey design consisting of two independent survey techniques used in 1979 was the result of methodology studies conducted in 1976 and 1977. The chosen design utilized an intercept survey of fishermen and a telephone survey of households. Each technique provided certain information that when combined produced estimates of recreational catch, effort, and participation.

The first method of this "complemented" survey approach involved an on-site intercept survey in four fishing modes: beach/bank; party and charter boat; private and rental boat; and fishing from man-made structures. The allocation of interviews over time and by fishing mode was derived from the identification of all fishing sites in coastal counties by fishing activity. Interviews and examination of fishermen's catches were conducted after they had finished fishing or in some cases while they were still fishing. The type of data collected included fishing effort, catch, distribution of catch by species, weights, lengths, mode, and location of fishing.

The second method in the complemented surveys approach involved a telephone survey of households. In each coastal State all counties within a specified distance from the coast were included in the sample. The first eight digits of the telephone numbers called were obtained from a computerized data file of in-service residential numbers in each county; the last two digits were randomly generated. Calls were allocated by two-month periods and by county according to estimated fishing activity and population. The type of data collected included the number of fishermen, the number of trips, location of fishing, and mode of fishing for each trip. A two-month recall period was used for the telephone survey since beyond that time the respondents memory concerning dates and locations of trips was not sufficiently reliable. Fishermen were not asked detailed information about catch and effort because of the problem in identifying species caught and in recalling weights and lengths.

HOW DATA WAS COMBINED. The household survey collected data from residents with telephones in coastal counties. The intercept survey sample was similar but also included interviews with residents of non-telephone households and of non-coastal counties. During data processing, information collected in the household survey was combined with the intercept survey data to derive expanded estimates of the number of trips taken, the amount of finfish caught (number and weight), and the number of participants in fishing activities.

The estimate of the total number of fish caught in the survey includes: (1) those fish brought ashore in whole form which were available for identification, enumeration, weighing, and measuring by the interviewers (Catch Type A); (2) those fish used for bait, discarded dead, given away or brought ashore filleted or in some other dressed form (Catch Type B1); and (3) those fish released alive (Catch Type B2). In addition to estimating total catch, the survey provides an estimate for the components of total catch as shown in the following diagram.




1979 RESULTS. The first year's survey from January 1979 through December 1979 included the Atlantic Coast, Gulf Coast, Caribbean area (Puerto Rico and the U.S. Virgin Islands) and the Western Pacific area (Hawaii, Guam, and American Samoa). The second year's survey covered calendar year 1980 and included the Atlantic Coast, Gulf Coast, and the Western Pacific area (including the Northern Mariana Islands.) A 1-year survey was started on the Pacific Coast in July 1979 and was later extended to December 1980 in order to coincide with other 1980 surveys. For 1981, all areas of the United States were included in the survey. These surveys are planned to continue annually for the next several years.

The following data and tables are excerpted from the 1979 report "Marine Recreational Fishery Statistics Survey, Atlantic and Gulf Coasts, 1979." Additional data such as State landings and fishing trips are included in the original document (CFS No. 8063; for ordering information see PUBLICATIONS section). Additional reports covering the Caribbean, Pacific, and Western Pacific survey regions are scheduled for publication in 1982.

ESTIMATED TOTAL NUMBER OF FISH CAUGHT BY MARINE RECREATIONAL FISHERMEN, BY SPECIES GROUP AND SUBREGION, 1979

| Species group | North Atlantic | Mid-Atlantic | South Atlantic | Gulf | All regions |
|---|---|---|---|---|---|
| | | | Thousands | | |
| Barracudas | - | (1) | 358 | 38 | 418 |
| Basses, sea | 339 | 2,181 | 3,341 | 2,440 | 8,301 |
| Bluefish | 4,824 | 15,610 | 4,994 | 1,903 | 27,332 |
| Blue runner | - | - | 802 | 496 | 1,298 |
| Bonito, Atlantic | 34 | 333 | 69 | 142 | 578 |
| Catfishes, sea | (1) | 216 | 5,517 | 14,993 | 20,727 |
| Catfishes, freshwater | (1) | 154 | - | 198 | 375 |
| Cod, Atlantic | 2,602 | (1) | - | - | 2,627 |
| Croaker, Atlantic | - | 1,719 | 3,778 | 11,008 | 16,505 |
| Cunner | 2,083 | 1,253 | - | - | 3,335 |
| Dolphins | - | (1) | 2,766 | 54 | 2,828 |
| Drum, black | - | (1) | 415 | 2,245 | 2,665 |
| Drum, red | - | - | 520 | 3,593 | 4,113 |
| Drums | - | (1) | 154 | 381 | 538 |
| Eel, American | 113 | 172 | 47 | 43 | 375 |
| Flounders, summer | 571 | 12,653 | 988 | 1,882 | 16,095 |
| Flounders, winter | 12,448 | 10,107 | - | - | 22,554 |
| Flounders | 523 | 350 | (1) | 427 | 1,315 |
| Groupers | - | - | 537 | 880 | 1,417 |
| Grunt, white | - | - | 970 | 2,902 | 3,873 |
| Grunts | - | (1) | 3,187 | 1,546 | 4,733 |
| Hakes | 62 | 322 | (1) | - | 393 |
| Herrings | 800 | 240 | 2,927 | 2,142 | 6,109 |
| Jack, crevalle | - | (1) | 351 | 1,204 | 1,556 |
| Jacks | - | 51 | 852 | 907 | 1,810 |
| Kingfishes | - | 31 | 1,083 | 3,383 | 4,498 |
| Ladyfish | - | - | 105 | 761 | 866 |
| Little tunny | - | (1) | 200 | 326 | 546 |
| Mackerel, Atlantic | 2,172 | 1,870 | - | - | 4,043 |
| Mackerel, king | - | (1) | 393 | 598 | 994 |
| Mackerel, Spanish | - | - | 917 | 1,292 | 2,209 |
| Mackerels and tunas | 119 | 131 | 126 | 144 | 519 |
| Mullets | - | (1) | 3,198 | 5,205 | 8,414 |
| Perch, sand | - | - | 190 | 1,643 | 1,834 |
| Perch, silver | - | (1) | 271 | 1,622 | 1,906 |
| Perch, white | 143 | 5,284 | 67 | - | 5,494 |
| Perch, yellow | - | 322 | - | - | 322 |
| Pigfish | - | (1) | 456 | 1,521 | 1,992 |
| Pinfish | (1) | (1) | 3,720 | 9,070 | 12,811 |
| Pollock | 2,277 | 270 | - | - | 2,547 |
| Porgies | 215 | 2,883 | 347 | 159 | 3,604 |
| Puffers | (1) | 90 | 150 | 167 | 409 |
| Scup | 4,581 | 3,004 | (1) | (1) | 7,601 |
| Searobins | 475 | 2,499 | 655 | 128 | 3,757 |
| Seatrout, sand | - | - | (1) | 6,286 | 6,291 |
| Seatrout, silver | - | (1) | 534 | 179 | 723 |
| Seatrout, spotted | - | 410 | 1,511 | 13,506 | 15,426 |
| Sharks | (1) | 702 | 439 | 769 | 1,914 |
| Sharks, dogfish | 156 | 601 | 54 | 80 | 892 |
| Sheepshead | - | - | 1,106 | 1,861 | 2,967 |
| Skates and rays | 178 | 587 | 172 | 621 | 1,557 |
| Smelts | 644 | - | - | - | 644 |
| Snapper, gray | - | - | 660 | 1,088 | 1,748 |
| Snapper, red | - | - | 687 | 3,567 | 4,254 |
| Snapper, vermilion | - | - | 153 | 358 | 511 |
| Snappers | - | (1) | 2,209 | 620 | 2,850 |
| Spadefish, Atlantic | - | - | (1) | 451 | 462 |
| Spot | - | 8,708 | 8,840 | 932 | 18,480 |
| Striped bass | 185 | 948 | 47 | (1) | 1,181 |
| Tautog | 999 | 1,883 | (1) | - | 2,883 |
| Toadfishes | (1) | 815 | 295 | 202 | 1,313 |
| Tomcod, Atlantic | 833 | (1) | - | - | 849 |
| Trigger and filefishes | (1) | 37 | 364 | 506 | 910 |
| Weakfish | 59 | 4,234 | 124 | - | 4,417 |
| Windowpane | 91 | 377 | - | - | 468 |
| Other fish | 2,499 | 1,217 | 4,436 | 2,896 | 11,048 |
| Total | 40,064 | 82,452 | 66,135 | 109,372 | 298,023 |

(1) Less than 30,000 reported; however, number is included in totals.

Note:--Table may not add because of rounding.

ESTIMATED NUMBER OF FISH CAUGHT (CATCH TYPE A)
BY MARINE RECREATIONAL FISHERMEN, BY SPECIES GROUP AND SUBREGION, 1979

| Species group | North Atlantic | Mid-Atlantic | South Atlantic | Gulf | All regions |
|---|---|---|---|---|---|
| | | | Thousands | | |
| Barracudas | - | (1) | 109 | - | 131 |
| Basses, sea | (1) | 599 | 622 | 709 | 1,936 |
| Bluefish | 1,358 | 8,504 | 2,174 | 743 | 12,780 |
| Blue runner | - | - | 509 | 167 | 676 |
| Bonito, Atlantic | (1) | 82 | (1) | 48 | 158 |
| Catfishes, sea | (1) | (1) | 271 | 483 | 765 |
| Catfishes, freshwater | (1) | 66 | - | 83 | 149 |
| Cod, Atlantic | 468 | (1) | - | - | 492 |
| Croaker, Atlantic | - | 1,304 | 2,116 | 2,173 | 5,594 |
| Cunner | 59 | 68 | - | - | 127 |
| Dolphins | - | (1) | 915 | 36 | 953 |
| Drum, black | - | (1) | 254 | 1,487 | 1,743 |
| Drum, red | - | - | 449 | 1,479 | 1,927 |
| Drums | - | (1) | (1) | 60 | 87 |
| Eel, American | (1) | 76 | (1) | (1) | 96 |
| Flounders, summer | 332 | 6,915 | 655 | 1,108 | 9,011 |
| Flounders, winter | 3,957 | 4,419 | - | - | 8,377 |
| Flounders | (1) | 58 | (1) | 125 | 192 |
| Groupers | - | - | 214 | 321 | 535 |
| Grunt, white | - | - | 568 | 632 | 1,200 |
| Grunts | - | - | 978 | 150 | 1,128 |
| Hakes | (1) | 220 | (1) | - | 231 |
| Herrings | (1) | (1) | (1) | (1) | 66 |
| Jack, crevalle | - | (1) | 161 | 153 | 317 |
| Jacks | - | (1) | 402 | 139 | 543 |
| Kingfishes | - | (1) | 523 | 1,775 | 2,314 |
| Ladyfish | - | - | 33 | (1) | 42 |
| Little tunny | - | (1) | 92 | 96 | 205 |
| Mackerel, Atlantic | 626 | 1,538 | - | - | 2,163 |
| Mackerel, king | - | (1) | 176 | 399 | 578 |
| Mackerel, Spanish | - | - | 898 | 536 | 1,433 |
| Mackerels and tunas | 43 | 110 | 52 | (1) | 220 |
| Mullets | - | - | 1,306 | 1,861 | 3,167 |
| Perch, sand | - | - | 54 | 78 | 131 |
| Perch, silver | - | (1) | 126 | 249 | 380 |
| Perch, white | 47 | 2,201 | (1) | - | 2,267 |
| Perch, yellow | - | 87 | - | - | 87 |
| Pigfish | - | (1) | 86 | 365 | 466 |
| Pinfish | (1) | (1) | 1,000 | 896 | 1,916 |
| Pollock | 197 | - | - | - | 197 |
| Porgies | (1) | 1,226 | 283 | (1) | 1,522 |
| Puffers | - | (1) | (1) | (1) | 39 |
| Scup | 1,857 | 2,396 | (1) | (1) | 4,266 |
| Searobins | (1) | 54 | (1) | - | 81 |
| Seatrout, sand | - | - | - | 3,674 | 3,674 |
| Seatrout, silver | - | (1) | 223 | 59 | 292 |
| Seatrout, spotted | - | 328 | 843 | 5,432 | 6,603 |
| Sharks | - | 47 | 52 | 82 | 180 |
| Sharks, dogfish | (1) | 77 | (1) | (1) | 106 |
| Sheepshead | - | - | 835 | 925 | 1,760 |
| Skates and rays | (1) | (1) | (1) | (1) | 37 |
| Smelts | 339 | - | - | - | 339 |
| Snapper, gray | - | - | 292 | 590 | 882 |
| Snapper, red | - | - | 190 | 1,773 | 1,963 |
| Snapper, vermilion | - | - | 57 | 305 | 362 |
| Snappers | - | (1) | 494 | (1) | 524 |
| Spadefish, Atlantic | - | - | (1) | 179 | 184 |
| Spot | - | 2,443 | 3,974 | 264 | 6,680 |
| Striped bass | 43 | 487 | (1) | (1) | 540 |
| Tautog | 538 | 1,102 | (1) | - | 1,641 |
| Toadfishes | - | (1) | (1) | - | (1) |
| Tomcod, Atlantic | 707 | (1) | - | - | 712 |
| Trigger and filefishes | - | (1) | 79 | 393 | 476 |
| Weakfish | (1) | 3,039 | 115 | - | 3,166 |
| Windowpane | (1) | 33 | - | - | 57 |
| Other fish | 362 | 147 | 1,457 | 365 | 2,331 |
| Total | 11,069 | 37,836 | 23,811 | 30,497 | 103,213 |

(1) Less than 30,000 reported; however, number is included in totals.

Note:--Catch Type A is an estimate of part of the total catch based on fish brought ashore in whole form, available for interviewer identification and enumeration, from which samples of lengths and weights were obtained. Table may not add because of rounding.

ESTIMATED NUMBER OF FISH CAUGHT (CATCH TYPE B1)
BY MARINE RECREATIONAL FISHERMEN, BY SPECIES GROUP AND SUBREGION, 1979

| Species group | North Atlantic | Mid-Atlantic | South Atlantic | Gulf | All regions |
|---|---|---|---|---|---|
| | | | Thousands | | |
| Barracudas | - | - | 79 | - | 79 |
| Basses, sea | 146 | 247 | 1,306 | 512 | 2,211 |
| Bluefish | 2,924 | 5,333 | 2,152 | 314 | 10,723 |
| Blue runner | - | - | 199 | (1) | 214 |
| Bonito, Atlantic | (1) | 240 | 41 | (1) | 324 |
| Catfishes, sea | - | (1) | 639 | 2,104 | 2,755 |
| Catfishes, freshwater | (1) | (1) | - | 33 | 58 |
| Cod, Atlantic | 1,729 | (1) | - | - | 1,729 |
| Croaker, Atlantic | - | 225 | 629 | 3,272 | 4,127 |
| Cunner | 232 | 39 | - | - | 271 |
| Dolphins | - | - | 1,847 | (1) | 1,852 |
| Drum, black | - | (1) | (1) | 81 | 94 |
| Drum, red | - | - | 36 | 507 | 542 |
| Drums | - | (1) | 89 | 58 | 147 |
| Eel, American | 44 | 56 | (1) | (1) | 129 |
| Flounders, summer | 111 | 3,734 | 249 | 677 | 4,771 |
| Flounders, winter | 7,062 | 2,398 | - | - | 9,460 |
| Flounders | 424 | 264 | (1) | 147 | 840 |
| Groupers | - | - | 210 | 135 | 345 |
| Grunt, white | - | - | 122 | 962 | 1,084 |
| Grunts | - | (1) | 654 | 376 | 1,030 |
| Hakes | (1) | 100 | - | - | 121 |
| Herrings | 754 | 163 | 2,738 | 1,396 | 5,050 |
| Jack, crevalle | - | - | (1) | 223 | 239 |
| Jacks | - | 39 | 253 | 155 | 447 |
| Kingfishes | - | (1) | 277 | 526 | 811 |
| Ladyfish | - | - | (1) | 112 | 118 |
| Little tunny | - | (1) | 44 | 51 | 98 |
| Mackerel, Atlantic | 1,376 | 330 | - | - | 1,705 |
| Mackerel, king | - | - | 197 | 199 | 397 |
| Mackerel, Spanish | - | - | (1) | 660 | 674 |
| Mackerels and tunas | 58 | (1) | 55 | (1) | 155 |
| Mullets | - | (1) | 1,708 | 2,739 | 4,449 |
| Perch, sand | - | - | 79 | 546 | 625 |
| Perch, silver | - | (1) | (1) | 185 | 223 |
| Perch, white | (1) | 590 | (1) | - | 607 |
| Perch, yellow | - | (1) | - | - | (1) |
| Pigfish | - | - | (1) | 174 | 193 |
| Pinfish | (1) | - | 1,385 | 2,231 | 3,616 |
| Pollock | 830 | 270 | - | - | 1,100 |
| Porgies | 190 | 718 | (1) | 62 | 999 |
| Puffers | - | - | (1) | (1) | (1) |
| Scup | 1,588 | 266 | - | - | 1,854 |
| Searobins | 63 | 133 | (1) | (1) | 215 |
| Seatrout, sand | - | - | - | 937 | 937 |
| Seatrout, silver | - | - | 296 | 43 | 339 |
| Seatrout, spotted | - | (1) | 123 | 2,750 | 2,895 |
| Sharks | - | 230 | 82 | 236 | 548 |
| Sharks, dogfish | 89 | 68 | (1) | 32 | 192 |
| Sheepshead | - | - | 133 | 226 | 359 |
| Skates and rays | (1) | (1) | (1) | (1) | 95 |
| Smelts | 223 | - | - | - | 223 |
| Snapper, gray | - | - | 110 | 491 | 601 |
| Snapper, red | - | - | 417 | 1,168 | 1,585 |
| Snapper, vermilion | - | - | (1) | (1) | 37 |
| Snappers | - | (1) | 1,608 | 82 | 1,703 |
| Spadefish, Atlantic | - | - | (1) | (1) | (1) |
| Spot | - | 2,431 | 3,691 | 31 | 6,154 |
| Striped bass | 90 | 73 | - | - | 163 |
| Tautog | 269 | 528 | - | - | 797 |
| Toadfishes | - | 266 | (1) | (1) | 292 |
| Tomcod, Atlantic | 65 | (1) | - | - | 71 |
| Trigger and filefishes | (1) | (1) | 70 | 34 | 133 |
| Weakfish | 47 | 1,006 | (1) | - | 1,053 |
| Windowpane | (1) | (1) | - | - | (1) |
| Other fish | 1,659 | 801 | 2,198 | 558 | 5,215 |
| Total | 20,090 | 20,738 | 23,953 | 25,180 | 89,961 |

(1) Less than 30,000 reported; however, number is included in totals.

Note:--Catch Type B1 is an estimate of part of the total catch based on fish not available in whole form for interviewer's identification, as reported by fishermen. Included are those fish used as bait, filleted, given away, discarded dead, etc., excluding fish released alive. Table may not add because of rounding.

# U.S. MARINE RECREATIONAL FISHERIES

ESTIMATED NUMBER OF FISH CAUGHT (CATCH TYPE B2)
BY MARINE RECREATIONAL FISHERMEN, BY SPECIES GROUP AND SUBREGION, 1979

| Species group | North Atlantic | Mid-Atlantic | South Atlantic | Gulf | All regions |
|---|---|---|---|---|---|
| | | | Thousands | | |
| Barracudas | - | - | 169 | 38 | 207 |
| Basses, sea | 186 | 1,336 | 1,413 | 1,219 | 4,154 |
| Bluefish | 542 | 1,774 | 667 | 846 | 3,829 |
| Blue runner | - | - | 94 | 315 | 409 |
| Bonito, Atlantic | - | (1) | (1) | 78 | 95 |
| Catfishes, sea | - | 193 | 4,607 | 12,406 | 17,207 |
| Catfishes, freshwater | - | 86 | - | 82 | 168 |
| Cod, Atlantic | 406 | - | - | - | 406 |
| Croaker, Atlantic | - | 190 | 1,032 | 5,562 | 6,784 |
| Cunner | 1,792 | 1,146 | - | - | 2,938 |
| Dolphins | - | (1) | (1) | (1) | (1) |
| Drum, black | - | (1) | 151 | 677 | 829 |
| Drum, red | - | - | 36 | 1,607 | 1,643 |
| Drums | - | (1) | 41 | 263 | 305 |
| Eel, American | 57 | 40 | 37 | (1) | 151 |
| Flounders, summer | 128 | 2,003 | 84 | 97 | 2,313 |
| Flounders, winter | 1,429 | 3,289 | - | - | 4,718 |
| Flounders | 94 | (1) | (1) | 155 | 284 |
| Groupers | - | - | 113 | 424 | 538 |
| Grunt, white | - | - | 280 | 1,308 | 1,589 |
| Grunts | - | - | 1,555 | 1,020 | 2,575 |
| Hakes | 37 | (1) | (1) | - | 42 |
| Herrings | (1) | 61 | 181 | 733 | 992 |
| Jack, crevalle | - | - | 173 | 827 | 1,000 |
| Jacks | - | (1) | 198 | 613 | 820 |
| Kingfishes | - | (1) | 283 | 1,082 | 1,373 |
| Ladyfish | - | - | 66 | 640 | 706 |
| Little tunny | - | - | 64 | 179 | 243 |
| Mackerel, Atlantic | 171 | (1) | - | - | 174 |
| Mackerel, king | - | - | (1) | - | (1) |
| Mackerel, Spanish | - | - | (1) | 97 | 101 |
| Mackerels and tunas | (1) | (1) | (1) | 107 | 144 |
| Mullets | - | (1) | 184 | 605 | 798 |
| Perch, sand | - | - | 58 | 1,020 | 1,077 |
| Perch, silver | - | - | 116 | 1,188 | 1,304 |
| Perch, white | 86 | 2,493 | 41 | - | 2,619 |
| Perch, yellow | - | 216 | - | - | 216 |
| Pigfish | - | - | 352 | 981 | 1,333 |
| Pinfish | - | - | 1,335 | 5,944 | 7,279 |
| Pollock | 1,251 | - | - | - | 1,251 |
| Porgies | (1) | 939 | 35 | 86 | 1,083 |
| Puffers | (1) | 71 | 145 | 141 | 359 |
| Scup | 1,135 | 342 | - | (1) | 1,481 |
| Searobins | 394 | 2,313 | 626 | 127 | 3,460 |
| Seatrout, sand | - | - | (1) | 1,675 | 1,681 |
| Seatrout, silver | - | - | (1) | 77 | 91 |
| Seatrout, spotted | - | 59 | 545 | 5,324 | 5,929 |
| Sharks | (1) | 426 | 305 | 452 | 1,186 |
| Sharks, dogfish | 63 | 456 | (1) | 46 | 593 |
| Sheepshead | - | - | 138 | 710 | 848 |
| Skates and rays | 145 | 559 | 129 | 593 | 1,426 |
| Smelts | 81 | - | - | - | 81 |
| Snapper, gray | - | - | 258 | (1) | 265 |
| Snapper, red | - | - | 80 | 626 | 706 |
| Snapper, vermilion | - | - | 79 | 32 | 111 |
| Snappers | - | (1) | 106 | 511 | 623 |
| Spadefish, Atlantic | - | - | (1) | 248 | 250 |
| Spot | - | 3,834 | 1,175 | 637 | 5,645 |
| Striped bass | 52 | 387 | 38 | - | 478 |
| Tautog | 192 | 252 | - | - | 445 |
| Toadfishes | (1) | 541 | 262 | 201 | 1,004 |
| Tomcod, Atlantic | 61 | (1) | - | - | 66 |
| Trigger and filefishes | - | (1) | 215 | 79 | 300 |
| Weakfish | - | 188 | (1) | - | 198 |
| Windowpane | 61 | 322 | - | - | 383 |
| Other fish | 478 | 269 | 782 | 1,974 | 3,502 |
| Total | 8,905 | 23,879 | 18,370 | 53,694 | 104,848 |

(1) Less than 30,000 reported; however, number is included in totals.

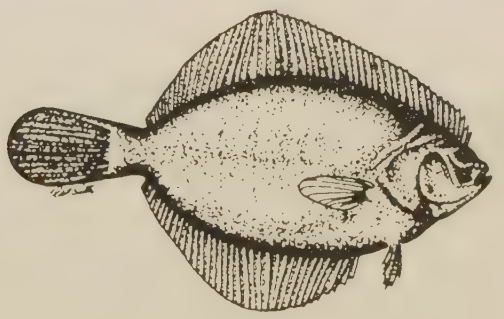
Note:--Catch Type B2 is an estimate of part of the total catch based on fish released alive, as reported by the fishermen. Table may not add because of rounding.

ESTIMATED TOTAL NUMBER OF FISH CAUGHT BY MARINE RECREATIONAL FISHERMEN, BY AREA AND MODE OF FISHING FOR EACH SUBREGION, 1979

| Mode and subregion | Ocean More than 3 mi. | Ocean 3 mi. or less | Inland | Unknown (1) | All areas |
|---|---|---|---|---|---|
| | | | Thousands | | |
| NORTH ATLANTIC | | | | | |
| Man-made | - | 1,564 | 3,428 | 9 | 5,001 |
| Beach/bank | - | 702 | 1,587 | 8 | 2,297 |
| Party/charter | 1,786 | 341 | 502 | - | 2,629 |
| Private/rental | 5,758 | 4,905 | 19,475 | - | 30,137 |
| Total | 7,543 | 7,512 | 24,992 | 17 | 40,064 |
| MID-ATLANTIC | | | | | |
| Man-made | - | 2,501 | 4,581 | 2,731 | 9,813 |
| Beach/bank | - | 3,269 | 2,035 | 658 | 5,962 |
| Party charter | 5,305 | 1,463 | 2,664 | - | 9,431 |
| Private/rental | 4,710 | 5,945 | 44,440 | 2,152 | 57,247 |
| Total | 10,015 | 13,178 | 53,719 | 5,541 | 82,452 |
| SOUTH ATLANTIC | | | | | |
| Man-made | - | 13,404 | 3,210 | 3,512 | 20,127 |
| Beach/bank | - | 6,143 | 927 | 3,829 | 10,899 |
| Party/charter | 1,130 | 577 | 30 | - | 1,737 |
| Private/rental | 11,275 | 5,579 | 11,619 | 4,900 | 33,372 |
| Total | 12,404 | 25,702 | 15,787 | 12,241 | 66,135 |
| GULF | | | | | |
| Man-made | - | 9,000 | 2,173 | 9,492 | 20,665 |
| Beach/bank | - | 4,536 | 7,050 | 1,567 | 13,153 |
| Party/charter | 1,981 | - | 611 | 1,880 | 4,472 |
| Private/rental | 13,756 | 7,428 | 33,966 | 15,931 | 71,081 |
| Total | 15,737 | 20,964 | 43,800 | 28,871 | 109,372 |

(1) This category includes "missing data" on area, and local variation in marine geographic terminology which sometimes prevented interviewers from determining acceptable answers to questions on "distance from shore."

Note:--Table may not add because of rounding.



ESTIMATED NUMBER OF FISH CAUGHT (CATCH TYPE A) BY MARINE RECREATIONAL FISHERMEN, BY AREA AND MODE OF FISHING FOR EACH SUBREGION, 1979

| Mode and subregion | Ocean More than 3 mi. | Ocean 3 mi. or less | Inland | Unknown (1) | All areas |
|---|---|---|---|---|---|
| | | | Thousands | | |
| NORTH ATLANTIC | | | | | |
| Man-made | - | 545 | 1,680 | 6 | 2,232 |
| Beach/bank | - | 205 | 532 | 8 | 745 |
| Party/charter | 265 | 33 | 112 | - | 410 |
| Private/rental | 723 | 1,324 | 5,636 | - | 7,683 |
| Total | 988 | 2,107 | 7,960 | 14 | 11,069 |
| MID-ATLANTIC | | | | | |
| Man-made | - | 1,062 | 1,548 | 1,072 | 3,681 |
| Beach/bank | - | 2,060 | 726 | 413 | 3,199 |
| Party charter | 3,078 | 774 | 741 | - | 4,593 |
| Private/rental | 3,173 | 3,301 | 18,193 | 1,696 | 26,362 |
| Total | 6,251 | 7,196 | 21,208 | 3,180 | 37,836 |
| SOUTH ATLANTIC | | | | | |
| Man-made | - | 4,361 | 1,412 | 1,789 | 7,562 |
| Beach/bank | - | 2,171 | 243 | 1,380 | 3,794 |
| Party/charter | 653 | 380 | 14 | - | 1,047 |
| Private/rental | 2,798 | 2,355 | 4,550 | 1,707 | 11,409 |
| Total | 3,451 | 9,267 | 6,218 | 4,876 | 23,811 |
| GULF | | | | | |
| Man-made | - | 1,211 | 708 | 2,810 | 4,728 |
| Beach/bank | - | 1,081 | 1,612 | 472 | 3,165 |
| Party/charter | 258 | - | 168 | 1,821 | 2,246 |
| Private/rental | 4,382 | 1,945 | 9,775 | 4,256 | 20,358 |
| Total | 4,640 | 4,237 | 12,262 | 9,358 | 30,497 |

(1) This category includes "missing data" on area, and local variation in marine geographic terminology which sometimes prevented interviewers from determining acceptable answers to questions on "distance from shore."

Note:--Catch Type A is an estimate of part of the total catch based on fish brought ashore in whole form, available for interviewer identification and enumeration, from which samples of lengths and weights were obtained. Table may not add because of rounding.

ESTIMATED WEIGHT OF FISH CAUGHT (CATCH TYPE A),
BY MARINE RECREATIONAL FISHERMEN, BY SPECIES GROUP AND SUBREGION, 1979

| Species group | North Atlantic | Mid-Atlantic | South Atlantic | Gulf | All regions |
|---|---|---|---|---|---|
| | | | Thousand kilograms | | |
| Barracudas | - | (1) | 267 | - | 275 |
| Basses, sea | (1) | 172 | 271 | 101 | 548 |
| Bluefish | 1,937 | 16,314 | 3,055 | 473 | 21,781 |
| Blue runner | - | - | 308 | 108 | 415 |
| Bonito, Atlantic | (1) | 188 | (1) | 101 | 389 |
| Catfishes, sea | (1) | (1) | 137 | 324 | 466 |
| Catfishes, freshwater | (1) | 50 | - | 39 | 89 |
| Cod, Atlantic | 686 | (1) | - | - | 728 |
| Croaker, Atlantic | - | 711 | 411 | 564 | 1,685 |
| Cunner | 14 | 7 | - | - | 21 |
| Dolphins | - | (1) | 2,127 | 165 | 2,297 |
| Drum, black | - | (1) | 322 | 1,187 | 1,528 |
| Drum, red | - | - | 469 | 1,319 | 1,788 |
| Drums | - | (1) | (1) | 109 | 137 |
| Eel, American | (1) | 31 | (1) | (1) | 43 |
| Flounders, summer | 281 | 5,355 | 358 | 549 | 6,543 |
| Flounders, winter | 1,803 | 2,006 | - | - | 3,809 |
| Flounders | (1) | 37 | (1) | 40 | 82 |
| Groupers | - | - | 500 | 1,930 | 2,430 |
| Grunt, white | - | - | 140 | 238 | 378 |
| Grunts | - | - | 324 | 25 | 349 |
| Hakes | (1) | 124 | (1) | - | 129 |
| Herrings | (1) | (1) | (1) | (1) | 14 |
| Jack, crevalle | - | (1) | 66 | 940 | 1,006 |
| Jacks | - | (1) | 320 | 446 | 767 |
| Kingfishes | - | (1) | 130 | 322 | 456 |
| Ladyfish | - | - | 27 | (1) | 34 |
| Little tunny | - | (1) | 401 | 188 | 673 |
| Mackerel, Atlantic | 548 | 1,163 | - | - | 1,711 |
| Mackerel, king | - | (1) | 865 | 1,799 | 2,676 |
| Mackerel, Spanish | - | - | 954 | 460 | 1,414 |
| Mackerels and tunas | 655 | 1,156 | 240 | (1) | 2,125 |
| Mullets | - | - | 612 | 978 | 1,590 |
| Perch, sand | - | - | 16 | 13 | 29 |
| Perch, silver | - | (1) | 29 | 22 | 51 |
| Perch, white | 6 | 467 | (1) | - | 473 |
| Perch, yellow | - | 17 | - | - | 17 |
| Pigfish | - | (1) | 12 | 56 | 71 |
| Pinfish | (1) | (1) | 177 | 90 | 271 |
| Pollock | 248 | - | - | - | 248 |
| Porgies | (1) | 310 | 170 | (1) | 486 |
| Puffers | - | (1) | (1) | (1) | 7 |
| Scup | 698 | 1,017 | (1) | (1) | 1,722 |
| Searobins | (1) | 17 | (1) | - | 24 |
| Seatrout, sand | - | - | - | 1,333 | 1,333 |
| Seatrout, silver | - | (1) | 99 | 10 | 126 |
| Seatrout, spotted | - | 440 | 539 | 3,031 | 4,010 |
| Sharks | - | 3,477 | 86 | 385 | 3,949 |
| Sharks, dogfish | (1) | 77 | (1) | (1) | 101 |
| Sheepshead | - | - | 787 | 741 | 1,527 |
| Skates and rays | (1) | (1) | (1) | (1) | 26 |
| Smelts | 76 | - | - | - | 76 |
| Snapper, gray | - | - | 158 | 425 | 582 |
| Snapper, red | - | - | 143 | 1,220 | 1,362 |
| Snapper, vermilion | - | - | 7 | 42 | 49 |
| Snappers | - | (1) | 251 | (1) | 256 |
| Spadefish, Atlantic | - | - | (1) | 25 | 28 |
| Spot | - | 425 | 514 | 30 | 968 |
| Striped bass | 266 | 870 | (1) | (1) | 1,144 |
| Tautog | 583 | 952 | (1) | - | 1,535 |
| Toadfishes | - | (1) | (1) | - | (1) |
| Tomcod, Atlantic | 132 | (1) | - | - | 135 |
| Trigger and filefishes | - | (1) | 73 | 303 | 381 |
| Weakfish | (1) | 3,446 | 95 | - | 3,574 |
| Windowpane | (1) | 15 | - | - | 19 |
| Other fish | 190 | 497 | 760 | 1,920 | 3,367 |
| Total | 8,214 | 39,576 | 16,391 | 22,155 | 86,336 |

(1) Less than 30,000 reported; however, numbers are included in totals.

Note:--Catch Type A is an estimate of part of the total catch based on fish brought ashore in whole form, available for interviewer identification and enumeration, from which samples of lengths and weights were obtained. Table may not add because of rounding.

ESTIMATED WEIGHT OF FISH CAUGHT (CATCH TYPE A) BY MARINE RECREATIONAL FISHERMEN, BY AREA OF FISHING AND MODE OF FISHING FOR EACH SUBREGION, 1979

| Mode and subregion | Ocean More than 3 mi. | Ocean 3 mi. or less | Inland | Unknown (1) | All areas |
|---|---|---|---|---|---|
| | | | Thousand kilograms | | |
| NORTH ATLANTIC | | | | | |
| Man-made | - | 194 | 373 | 2 | 570 |
| Beach/bank | - | 207 | 152 | 5 | 364 |
| Party/charter | 537 | 179 | 84 | - | 801 |
| Private/rental | 1,826 | 1,204 | 3,450 | - | 6,480 |
| Total | 2,363 | 1,784 | 4,060 | 7 | 8,214 |
| MID-ATLANTIC | | | | | |
| Man-made | - | 379 | 523 | 241 | 1,143 |
| Beach/bank | - | 1,796 | 291 | 305 | 2,392 |
| Party charter | 9,488 | 1,518 | 1,006 | - | 12,011 |
| Private/rental | 8,420 | 3,508 | 11,137 | 966 | 24,030 |
| Total | 17,908 | 7,201 | 12,956 | 1,511 | 39,576 |
| SOUTH ATLANTIC | | | | | |
| Man-made | - | 1,239 | 535 | 791 | 2,566 |
| Beach/bank | - | 667 | 148 | 746 | 1,561 |
| Party/charter | 476 | 583 | 4 | - | 1,063 |
| Private/rental | 6,361 | 2,160 | 1,638 | 1,042 | 11,202 |
| Total | 6,837 | 4,650 | 2,325 | 2,579 | 16,391 |
| GULF | | | | | |
| Man-made | - | 888 | 190 | 1,148 | 2,226 |
| Beach/bank | - | 432 | 644 | 161 | 1,236 |
| Party/charter | 244 | - | 69 | 1,391 | 1,703 |
| Private/rental | 7,384 | 1,122 | 5,359 | 3,124 | 16,989 |
| Total | 7,628 | 2,441 | 6,262 | 5,824 | 22,155 |

(1) This category includes "missing data" on area, and local variation in marine geographic terminology which sometimes prevented interviewers from determining acceptable answers to questions on "distance from shore."

Note:--Catch Type A is an estimate of part of the total catch based on fish brought ashore in whole form, available for interviewer identification and enumeration, from which samples of lengths and weights were obtained. Table may not add because of rounding.

ESTIMATED NUMBER OF PARTICIPANTS IN MARINE RECREATIONAL FISHING, BY STATE AND SUBREGION, FOR THE ATLANTIC AND GULF COASTS, 1979

| Subregion | Coastal participants | Non-coastal participants | Out of State (1) | Participants in State (1) |
|---|---|---|---|---|
| | | Thousands | | |
| NORTH ATLANTIC | | | | |
| Connecticut | 304 | - | 78 | 382 |
| Maine | 99 | 9 | 76 | 185 |
| Massachusetts | 454 | 47 | 275 | 776 |
| New Hampshire | 33 | 17 | 169 | 219 |
| Rhode Island | 167 | - | 263 | 430 |
| Total | 1,058 | 73 | | |
| MID-ATLANTIC | | | | |
| Delaware | 36 | - | 88 | 124 |
| Maryland | 595 | 34 | 284 | 913 |
| New Jersey | 644 | 18 | 310 | 972 |
| New York | 1,059 | 29 | 263 | 1,351 |
| Virginia | 384 | 35 | 470 | 889 |
| Total | 2,718 | 116 | | |
| SOUTH ATLANTIC | | | | |
| Florida | 1,071 | (2) | 754 | 1,826 |
| Georgia | 61 | 23 | 19 | 103 |
| North Carolina | 173 | 468 | 322 | 963 |
| South Carlina | 117 | 53 | 190 | 360 |
| Total | 1,422 | 544 | | |
| GULF | | | | |
| Alabama | 106 | 41 | 57 | 204 |
| Florida | 1,243 | 5 | 898 | 2,146 |
| Louisiana | 489 | 23 | 46 | 558 |
| Mississippi | 88 | 15 | 52 | 155 |
| Texas | 959 | 254 | 107 | 1,319 |
| Total | 2,885 | 338 | | |
| Grand total | 8,083 | 1,070 | | |

(1) Column does not add - one person can be counted as "out of State" for more than one State.

(2) Less than 500 participants.

Note:--Table may not add because of rounding.

ESTIMATED NUMBER OF FISHING TRIPS BY MARINE RECREATIONAL FISHERMEN, BY MODE OF FISHING AND SUBREGION, 1979

| Mode and subregion | Trips by coastal residents | Trips by non-coastal residents | Trips by out of state residents | All trips |
|---|---|---|---|---|
| | | Thousands | | |
| NORTH ATLANTIC | | | | |
| Man-made | 921 | 55 | 448 | 1,425 |
| Beach/bank | 892 | 27 | 335 | 1,254 |
| Party/charter | 285 | 40 | 208 | 533 |
| Private/rental | 2,715 | 94 | 962 | 3,771 |
| Total | 4,813 | 217 | 1,953 | 6,983 |
| MID-ATLANTIC | | | | |
| Man-made | 2,149 | 88 | 394 | 2,631 |
| Beach/bank | 1,530 | 16 | 771 | 2,317 |
| Party charter | 1,242 | 48 | 501 | 1,790 |
| Private/rental | 9,536 | 239 | 1,919 | 11,694 |
| Total | 14,457 | 392 | 3,584 | 18,433 |
| SOUTH ATLANTIC | | | | |
| Man-made | 2,503 | 577 | 896 | 3,977 |
| Beach/bank | 1,219 | 802 | 1,140 | 3,161 |
| Party/charter | 329 | 21 | 319 | 668 |
| Private/rental | 4,726 | 515 | 725 | 5,966 |
| Total | 8,777 | 1,915 | 3,080 | 13,771 |
| GULF | | | | |
| Man-made | 4,011 | 204 | 804 | 5,019 |
| Beach/bank | 2,712 | 97 | 690 | 3,499 |
| Party/charter | 484 | 105 | 341 | 930 |
| Private/rental | 8,625 | 550 | 959 | 10,134 |
| Total | 15,832 | 956 | 2,794 | 19,581 |
| Grand totals | 43,879 | 3,479 | 11,410 | 58,768 |

Note:--Table may not add because of rounding.

ALL FOREIGN COUNTRIES: CATCH IN THE U.S. FISHERY CONSERVATION ZONE (FCZ), BY CONTINENT AND COUNTRY, 1980

| Continent and Country | North Atlantic (1) | California, Oregon, and Washington | Alaska | | | Hawaii and Pacific Islands | Grand total |
|---|---|---|---|---|---|---|---|
| | | | Gulf of Alaska | Eastern Bering Sea and Aleutian Islands | Total Alaska | | |
| | Metric tons, round weight | | | | | | |
| North America: | | | | | | | |
| Canada | 28,479.0 | - | 1,177.6 | - | 1,177.6 | - | 29,656.6 |
| Cuba | 389.6 | - | - | - | - | - | 389.6 |
| Mexico | 1,509.5 | - | - | - | - | - | 1,509.5 |
| Europe: | | | | | | | |
| European Economic Community: | | | | | | | |
| Federal Republic of Germany | - | - | - | 6,729.5 | 6,729.5 | - | 6,729.5 |
| Italy | 9,445.4 | - | - | - | - | - | 9,445.4 |
| Other: | | | | | | | |
| Faroe Islands | 1.3 | - | - | - | - | - | 1.3 |
| Poland | 338.3 | 46,928.1 | 13,274.4 | 48,093.4 | 61,367.8 | - | 108,634.2 |
| Romania | 77.7 | - | - | - | - | - | 77.7 |
| Spain | 17,521.1 | - | - | - | - | - | 17,521.1 |
| USSR | - | - | 54,603.0 | 3,556.7 | 58,159.7 | - | 58,159.7 |
| Asia: | | | | | | | |
| Japan | 10,765.1 | - | 107,973.1 | 1,060,690.0 | 1,168,663.1 | 795.2 | 1,180,223.4 |
| Republic of Korea | - | - | 32,188.1 | 177,589.1 | 209,777.2 | - | 209,777.2 |
| Taiwan | - | - | - | 5,508.0 | 5,508.0 | - | 5,508.0 |
| Grand total | 68,527.0 | 46,928.1 | 209,216.2 | 1,302,166.7 | 1,511,382.9 | 795.2 | 1,627,633.2 |

(1) Cape Hatteras northward.

Note:--Excludes tunas. Also excludes salmon caught incidentally to other species and returned to sea. Beginning June 4, 1978, Canadian authorities excluded almost all United States fishing vessels from Canadian waters, and United States authorities excluded almost all Canadian fishing vessels from United States waters. In the Pacific, halibut fishing continued under the United States-Canada Halibut Convention. In a 1979 groundfish agreement, Canada, in return for the right to catch a specified amount of halibut in the United States FCZ, granted United States fishermen the right to catch a specified amount of groundfish in the Canadian fishery zone. In the Atlantic, fishing continued by vessels of both nations in a boundary region often referred to as the "disputed zone." Catches are for calendar year only. Some fishing years overlap 2 calendar years.

ALL FOREIGN COUNTRIES: CATCH IN THE U.S. FISHERY CONSERVATION ZONE (FCZ), BY CONTINENT AND COUNTRY, 1981
(Preliminary)

| Continent and Country | North Atlantic (1) | California, Oregon, and Washington | Alaska | | | Hawaii and Pacific Islands | Grand total |
|---|---|---|---|---|---|---|---|
| | | | Gulf of Alaska | Eastern Bering Sea and Aleutian Islands | Total Alaska | | |
| | Metric tons, round weight | | | | | | |
| North America, | | | | | | | |
| Canada | 29,910.8 | - | - | - | - | - | 29,910.8 |
| Europe: | | | | | | | |
| European Economic Community: | | | | | | | |
| Federal Republic of Germany | - | - | - | 11,872.8 | 11,872.8 | - | 11,872.8 |
| Italy | 12,398.9 | - | - | - | - | - | 12,398.9 |
| Other: | | | | | | | |
| Bulgaria | - | 7,112.8 | - | - | - | - | 7,112.8 |
| Poland | 4,072.8 | 64,193.9 | 41,082.3 | 55,008.3 | 96,090.6 | - | 164,357.3 |
| Spain | 19,725.0 | - | - | - | - | - | 19,725.0 |
| Asia: | | | | | | | |
| Japan | 10,960.4 | - | 115,814.8 | 1,033,162.4 | 1,148,977.2 | 662.0 | 1,160,599.6 |
| Republic of Korea | - | - | 75,611.9 | 167,369.6 | 242,981.5 | - | 242,981.5 |
| Taiwan | - | - | - | 5,978.8 | 5,978.8 | - | 5,978.8 |
| Grand total | 77,067.9 | 71,306.7 | 232,509.0 | 1,273,391.9 | 1,505,900.9 | 662.0 | 1,654,937.5 |

(1) Cape Hatteras northward.

Note:--Excludes tunas. Also excludes salmon caught incidentally to other species and returned to sea. Beginning June 4, 1978, Canadian authorities excluded almost all United States fishing vessels from Canadian waters, and United States authorities excluded almost all Canadian fishing vessels from United States waters. In the Pacific, halibut fishing continued under the United States-Canada Halibut Convention. In a 1979 groundfish agreement, Canada, in return for the right to catch a specified amount of halibut in the United States FCZ, granted United States fishermen the right to catch a specified amount of groundfish in the Canadian fishery zone. In the Atlantic, fishing continued by vessels of both nations in a boundary region often referred to as the "disputed zone." Catches are for calendar year only. Some fishing years overlap 2 calendar years.

ALL FOREIGN COUNTRIES: CATCH IN THE U.S. FISHERY CONSERVATION ZONE (FCZ), BY SPECIES AND AREA, 1980

| Species | North Atlantic (1) | Washington, Oregon, and California | Alaska | | | Hawaii and Pacific Islands | Total |
|---|---|---|---|---|---|---|---|
| | | | Gulf of Alaska | Eastern Bering Sea and Aleutian Islands | Total Alaska | | |
| | Metric tons, round weight | | | | | | |
| Finfish | | | | | | | |
| Alfonsins and armorheads | - | - | - | - | - | 795.2 | 795.2 |
| Atka mackerel | - | - | 13,162.4 | 20,224.7 | 33,387.1 | - | 33,387.1 |
| Butterfish | 883.7 | - | - | - | - | - | 883.7 |
| Cod: | | | | | | | |
| Atlantic | 6,665.0 | - | - | - | - | - | 6,665.0 |
| Pacific | - | - | 34,243.5 | 37,318.9 | 71,562.4 | - | 71,562.4 |
| Flounders: | | | | | | | |
| Atlantic | 204.0 | - | - | - | - | - | 204.0 |
| Yellowfin sole | - | - | - | 77,768.0 | 77,768.0 | - | 77,768.0 |
| Pacific, other | - | 2.1 | 15,496.0 | 88,529.2 | 104,025.2 | - | 104,027.3 |
| Haddock | 9,755.0 | - | - | - | - | - | 9,755.0 |
| Hake: | | | | | | | |
| Atlantic: | | | | | | | |
| Red | 155.2 | - | - | - | - | - | 155.2 |
| Silver (whiting) | 1,696.7 | - | - | - | - | - | 1,696.7 |
| Pacific (whiting) | - | 44,022.9 | - | - | - | - | 44,022.9 |
| Halibut | - | - | 1,177.6 | - | 1,177.6 | - | 1,177.6 |
| Herring, river (alewives) | 24.6 | - | - | - | - | - | 24.6 |
| Herring, sea, Pacific (2) | - | - | - | 782.6 | 782.6 | - | 782.6 |
| Jack mackerel | - | 1,724.8 | - | - | - | - | 1,724.8 |
| Mackerel, Atlantic | 382.7 | - | - | - | - | - | 382.7 |
| Ocean perch: | | | | | | | |
| Atlantic | 98.0 | - | - | - | - | - | 98.0 |
| Pacific | - | 32.4 | 12,446.9 | 4,917.0 | 17,363.9 | - | 17,396.3 |
| Pollock: | | | | | | | |
| Atlantic | 5,474.0 | - | - | - | - | - | 5,474.0 |
| Alaska | - | - | 112,996.0 | 1,006,129.5 | 1,119,125.5 | - | 1,119,125.5 |
| Rockfishes | - | 958.1 | 4,199.6 | 3,551.0 | 7,750.6 | - | 8,708.7 |
| Sablefish | - | 92.8 | 6,138.8 | 2,438.0 | 8,576.8 | - | 8,669.6 |
| Other finfish | 2,818.5 | 95.0 | 8,514.3 | 46,982.3 | 55,496.6 | - | 58,410.1 |
| Total fish | 28,157.4 | 46,928.1 | 208,375.1 | 1,288,641.2 | 1,497,016.3 | 795.2 | 1,572,897.0 |
| Shellfish et al. | | | | | | | |
| Crabs, snow (tanner) | - | - | - | 7,094.4 | 7,094.4 | - | 7,094.4 |
| Lobster, American | 194.0 | - | - | - | - | - | 194.0 |
| Scallops, sea | 5,239.0 | - | - | - | - | - | 5,239.0 |
| Snails (meats) | - | - | - | 57.3 | 57.3 | - | 57.3 |
| Squid: | | | | | | | |
| Atlantic: | | | | | | | |
| Short-finned | 17,724.9 | - | - | - | - | - | 17,724.9 |
| Long-finned | 17,211.7 | - | - | - | - | - | 17,211.7 |
| Pacific | - | - | 841.1 | 6,373.8 | 7,214.9 | - | 7,214.9 |
| Total shellfish | 40,369.6 | - | 841.1 | 13,525.5 | 14,366.6 | - | 54,736.2 |
| Grand total | 68,527.0 | 46,928.1 | 209,216.2 | 1,302,166.7 | 1,511,382.9 | 795.2 | 1,627,633.2 |

(1) Cape Hatteras northward. (2) Harvested between January 1 and February 8, 1980, and then declared a prohibited species.

Note:--Excludes tunas. Also excludes salmon caught incidentally to other species and returned to sea. Beginning June 4, 1978, Canadian authorities excluded almost all United States fishing vessels from Canadian waters, and United States authorities excluded almost all Canadian fishing vessels from United States waters. In the Pacific, halibut fishing continued under the United States-Canada Halibut Convention. In a 1979 groundfish agreement, Canada, in return for the right to catch a specified amount of halibut in the United States FCZ, granted United States fishermen the right to catch a specified amount of groundfish in the Canadian fishery zone. In the Atlantic, fishing continued by vessels of both nations in a boundary region often referred to as the "disputed zone." Catches are for calendar year only. Some fishing years overlap 2 calendar years.

ALL FOREIGN COUNTRIES: CATCH IN THE U.S. FISHERY CONSERVATION ZONE (FCZ), BY SPECIES AND AREA, 1981
(Preliminary)

| Species | North Atlantic (1) | Washington, Oregon, and California | Alaska | | | Hawaii and Pacific Islands | Total |
|---|---|---|---|---|---|---|---|
| | | | Gulf of Alaska | Eastern Bering Sea and Aleutian Islands | Total Alaska | | |
| | Metric tons, round weight | | | | | | |
| Finfish | | | | | | | |
| Alfonsins and armorheads | - | - | - | - | - | 635.8 | 635.8 |
| Atka mackerel | - | - | 18,726.8 | 18,105.0 | 36,831.8 | - | 36,831.8 |
| Butterfish | 1,063.9 | - | - | - | - | - | 1,063.9 |
| Cod: | | | | | | | |
| Atlantic | 8,911.0 | - | - | - | - | - | 8,911.0 |
| Pacific | - | - | 34,968.1 | 39,141.9 | 74,110.0 | - | 74,110.0 |
| Flounders: | | | | | | | |
| Atlantic | 89.0 | - | - | - | - | - | 89.0 |
| Yellowfin sole | - | - | - | 81,255.1 | 81,255.1 | - | 81,255.1 |
| Pacific, other | - | 2.3 | 14,441.0 | 91,894.1 | 106,335.1 | - | 106,337.4 |
| Haddock | 5,925.0 | - | - | - | - | - | 5,925.0 |
| Hake: | | | | | | | |
| Atlantic: | | | | | | | |
| Red | 165.9 | - | - | - | - | - | 165.9 |
| Silver (whiting) | 3,046.4 | - | - | - | - | - | 3,046.4 |
| Pacific (whiting) | - | 70,364.7 | - | - | - | - | 70,364.7 |
| Herring, river (alewives) | 13.9 | - | - | - | - | - | 13.9 |
| Jack mackerel | - | 226.3 | - | - | - | - | 226.3 |
| Mackerel, Atlantic | 5,309.1 | - | - | - | - | - | 5,309.1 |
| Ocean perch: | | | | | | | |
| Atlantic | 18.0 | - | - | - | - | - | 18.0 |
| Pacific | - | 18.1 | 12,177.0 | 4,852.1 | 17,029.1 | - | 17,047.2 |
| Pollock: | | | | | | | |
| Atlantic | 3,884.0 | - | - | - | - | - | 3,884.0 |
| Alaska | - | - | 130,323.3 | 987,132.1 | 1,117,455.4 | - | 1,117,455.4 |
| Rockfishes | - | 353.7 | 5,679.2 | 2,491.5 | 8,170.7 | - | 8,524.4 |
| Sablefish | - | 115.1 | 7,947.5 | 2,956.0 | 10,903.5 | - | 11,018.6 |
| Other finfish | 6,216.2 | 226.5 | 7,111.5 | 39,391.1 | 46,502.6 | 26.2 | 52,971.5 |
| Total fish | 34,642.4 | 71,306.7 | 231,374.4 | 1,267,218.9 | 1,498,593.3 | 662.0 | 1,605,204.4 |
| Shellfish et al. | | | | | | | |
| Lobster, American | 175.0 | - | - | - | - | - | 175.0 |
| Scallops, sea | 7,946.8 | - | - | - | - | - | 7,946.8 |
| Snails (meats) | - | - | - | 239.4 | 239.4 | - | 239.4 |
| Squid: | | | | | | | |
| Atlantic: | | | | | | | |
| Short-finned | 14,856.3 | - | - | - | - | - | 14,856.3 |
| Long-finned | 19,447.4 | - | - | - | - | - | 19,447.4 |
| Pacific | - | - | 1,134.6 | 5,933.6 | 7,068.2 | - | 7,068.2 |
| Total shellfish | 42,425.5 | - | 1,134.6 | 6,173.0 | 7,307.6 | - | 49,733.1 |
| Grand total | 77,067.9 | 71,306.7 | 232,509.0 | 1,273,391.9 | 1,505,900.9 | 662.0 | 1,654,937.5 |

(1) Cape Hatteras northward.

Note:--Excludes tunas. Also excludes salmon caught incidentally to other species and returned to sea. Beginning June 4, 1978, Canadian authorities excluded almost all United States fishing vessels from Canadian waters, and United States authorities excluded almost all Canadian fishing vessels from United States waters. In the Pacific, halibut fishing continued under the United States-Canada Halibut Convention. In a 1979 groundfish agreement, Canada, in return for the right to catch a specified amount of halibut in the United States FCZ, granted United States fishermen the right to catch a specified amount of groundfish in the Canadian fishery zone. In the Atlantic, fishing continued by vessels of both nations in a boundary region often referred to as the "diputed zone." Catches are for calendar year only. Some fishing years overlap 2 calendar years.

## FOREIGN CATCH

NORTH ATLANTIC: FOREIGN CATCH, BY COUNTRY AND SPECIES, 1979-81
(Preliminary)

| Country and species | 1979 | 1980 | 1981 |
|---|---|---|---|
| | Metric tons, round weight | | |
| Canada: | | | |
| Cod, Atlantic | 6,390.0 | 6,665.0 | 8,911.0 |
| Flounders (including yellowtail) | 15.0 | 74.0 | 11.0 |
| Flounders, other | 74.0 | 130.0 | 78.0 |
| Haddock | 5,439.0 | 9,755.0 | 5,925.0 |
| Ocean perch, Atlantic | 26.0 | 98.0 | 18.0 |
| Pollock, Atlantic | 3,032.0 | 5,474.0 | 3,884.0 |
| Other finfish | 994.0 | 850.0 | 2,902.0 |
| Lobster, American | 240.0 | 194.0 | 175.0 |
| Scallops, sea (meats) | 9,204.0 | 5,239.0 | 7,946.8 |
| Squid, short-finned | - | - | 60.0 |
| Total | 25,414.0 | 28,479.0 | 29,910.8 |
| Cuba: | | | |
| Butterfish | - | 9.0 | - |
| Hake: | | | |
| Red | - | 14.0 | - |
| Silver (whiting) | - | 72.8 | - |
| Herring, river (alewives) | - | 23.7 | - |
| Mackerel, Atlantic | - | 234.8 | - |
| Other finfish | - | 34.4 | - |
| Squid, long-finned | - | .9 | - |
| Total | - | 389.6 | - |
| European Economic Community: | | | |
| Ireland: | | | |
| Other finfish | .1 | - | - |
| Squid, short-finned | 207.2 | - | - |
| Total | 207.3 | - | - |
| Italy: | | | |
| Butterfish | 137.5 | 73.1 | 113.5 |
| Hake: | | | |
| Red | 188.3 | 42.3 | 36.6 |
| Silver (whiting) | 600.1 | 501.9 | 1,704.8 |
| Herring, river (alewives) | - | - | 2.2 |
| Mackerel, Atlantic | 28.4 | 26.8 | 1,038.8 |
| Other finfish | 600.6 | 724.1 | 1,424.4 |
| Squid: | | | |
| Short-finned | 3,070.3 | 5,123.1 | 3,314.5 |
| Long-finned | 2,064.9 | 2,954.1 | 4,764.1 |
| Total | 6,690.1 | 9,445.4 | 12,398.9 |
| Faroe Islands, | | | |
| Other finfish, total | - | 1.3 | - |
| Japan: | | | |
| Butterfish | 270.7 | 660.3 | 692.6 |
| Hake: | | | |
| Red | 12.8 | 37.4 | 15.8 |
| Silver (whiting) | 701.3 | 606.3 | 644.0 |
| Herring, river (alewives) | - | .1 | - |
| Mackerel, Atlantic | 9.2 | 88.4 | 237.6 |
| Other finfish | 321.8 | 618.6 | 682.9 |
| Squid: | | | |
| Short-finned | 3,211.8 | 2,207.0 | 4,303.5 |
| Long-finned | 3,184.1 | 6,547.0 | 4,384.0 |
| Total | 7,711.7 | 10,765.1 | 10,960.4 |

See note at end of table.

(Continued on next page)

# U.S. FISHERY CONSERVATION ZONE

## FOREIGN CATCH

NORTH ATLANTIC: FOREIGN CATCH, BY COUNTRY AND SPECIES, 1979-81 - Continued
(Preliminary)

| Country and species | 1979 | 1980 | 1981 |
|---|---|---|---|
| | Metric tons, round weight | | |
| Mexico: | | | |
| Butterfish | 342.6 | 72.2 | - |
| Hake: | | | |
| Red | 40.2 | 12.2 | - |
| Silver (whiting) | 110.1 | 39.3 | - |
| Herring, river (alewives) | .4 | .2 | - |
| Mackerel, Atlantic | 11.7 | 5.7 | - |
| Other finfish | 467.4 | 104.1 | - |
| Squid: | | | |
| Short-finned | 3,539.5 | 1,275.8 | - |
| Long-finned | 3,573.3 | - | - |
| Total | 8,085.2 | 1,509.5 | - |
| Poland: | | | |
| Butterfish | - | 3.2 | 0.1 |
| Hake, silver (whiting) | - | .5 | 48.0 |
| Herring, river (alewives) | - | - | 10.3 |
| Mackerel, Atlantic | - | 9.1 | 3,983.0 |
| Other finfish | - | 41.1 | 30.7 |
| Squid: | | | |
| Short-finned | 171.5 | 281.4 | .1 |
| Long-finned | - | 3.0 | .6 |
| Total | 171.5 | 338.3 | 4,072.8 |
| Romania: | | | |
| Butterfish | 1.7 | 2.3 | - |
| Hake: | | | |
| Red | .1 | .6 | - |
| Silver (whiting) | 15.5 | .1 | - |
| Mackerel, Atlantic | - | .5 | - |
| Other finfish | 7.6 | 18.2 | - |
| Squid: | | | |
| Short-finned | .7 | 56.0 | - |
| Long-finned | 2.9 | - | - |
| Total | 28.5 | 77.7 | - |
| Spain: | | | |
| Butterfish | 89.5 | 63.6 | 257.7 |
| Hake: | | | |
| Red | 65.3 | 48.7 | 113.5 |
| Silver (whiting) | 380.3 | 475.8 | 649.6 |
| Herring, river (alewives) | - | .6 | 1.4 |
| Mackerel, Atlantic | 5.1 | 17.4 | 49.7 |
| Other finfish | 425.2 | 426.7 | 1,176.2 |
| Squid: | | | |
| Short-finned | 6,225.3 | 8,781.6 | 7,178.2 |
| Long-finned | 4,349.9 | 7,706.7 | 10,298.7 |
| Total | 11,540.6 | 17,521.1 | 19,725.0 |
| USSR: | | | |
| Butterfish | 2.4 | - | - |
| Hake: | | | |
| Red | 670.2 | - | - |
| Silver (whiting) | 3,074.8 | - | - |
| Herring, river (alewives) | 11.5 | - | - |
| Mackerel, Atlantic | 10.1 | - | - |
| Other finfish | 479.6 | - | - |
| Squid: | | | |
| Short-finned | .1 | - | - |
| Long-finned | 7.9 | - | - |
| Total | 4,256.6 | - | - |
| Grand total | 64,105.5 | 68,527.0 | 77,067.9 |

Note:--Excludes tunas. Also excludes salmon caught incidentally to other species and returned to sea. Beginning June 4, 1978, Canadian authorities excluded almost all United States fishing vessels from Canadian waters, and United States authorities excluded almost all Canadian fishing vessels from United States waters. In the Pacific, halibut fishing continued under the United States-Canada Halibut Convention. In a 1979 groundfish agreement, Canada, in return for the right to catch a specified amount of halibut in the United States FCZ, granted United States fishermen the right to catch a specified amount of groundfish in the Canadian fishery zone. In the Atlantic, fishing continued by vessels of both nations in a boundary region often referred to as the "disputed zone." Catches are for calendar year only. Some fishing years overlap 2 calendar years.

## FOREIGN CATCH

WASHINGTON, OREGON, AND CALIFORNIA:
FOREIGN CATCH, BY COUNTRY AND SPECIES, 1979-81
(Preliminary)

| Country and species | 1979 | 1980 | 1981 |
|---|---|---|---|
| | - - - - - - - Metric tons, round weight - - - - - - - | | |
| Bulgaria: | | | |
| Flounders | - | - | .1 |
| Hake, Pacific (whiting) | - | - | 7,023.2 |
| Jack mackerel | - | - | 41.1 |
| Ocean perch, Pacific | - | - | 1.7 |
| Rockfishes | - | - | 17.6 |
| Sablefish | - | - | 4.2 |
| Other finfish | - | - | 24.9 |
| Total | - | - | 7,112.8 |
| Poland: | | | |
| Flounders | 2.0 | 2.1 | 2.2 |
| Hake, Pacific (whiting) | 18,072.5 | 44,022.9 | 63,341.5 |
| Jack mackerel | 315.9 | 1,724.8 | 185.2 |
| Ocean perch, Pacific | 8.3 | 32.4 | 16.4 |
| Rockfishes | 149.2 | 958.1 | 336.1 |
| Sablefish | 41.4 | 92.8 | 110.9 |
| Other finfish | 32.0 | 95.0 | 201.6 |
| Total | 18,621.3 | 46,928.1 | 64,193.9 |
| USSR: | | | |
| Flounders | 12.2 | - | - |
| Hake, Pacific (whiting) | 96,836.8 | - | - |
| Jack mackerel | 710.1 | - | - |
| Ocean perch, Pacific | 45.8 | - | - |
| Rockfishes | 789.5 | - | - |
| Sablefish | 157.0 | - | - |
| Other finfish | 155.8 | - | - |
| Total | 98,707.2 | - | - |
| Grand total | 117,328.5 | 46,928.1 | 71,306.7 |

Note:--Excludes tunas. Also excludes salmon caught incidentally to other species and returned to sea. Catches are for calendar year only. Some fishing years overlap 2 calendar years.

## FOREIGN CATCH

GULF OF ALASKA: FOREIGN CATCH, BY COUNTRY AND SPECIES, 1979-81
(Preliminary)

| Country and species | 1979 | 1980 | 1981 |
|---|---|---|---|
| | - - - - - - - Metric tons, round weight - - - - - - - | | |
| Canada, | | | |
| Halibut, Total. . . . . | 1,085.9 | 1,177.6 | - |
| Japan: | | | |
| Atka mackerel . . . . . | 566.9 | 1,895.9 | 3,636.0 |
| Cod, Pacific. . . . . | 10,429.2 | 30,581.1 | 27,767.5 |
| Flounders (1) . . . . . | 12,369.5 | 11,923.5 | 9,400.1 |
| Ocean perch, Pacific. . . . . | 7,397.4 | 10,769.7 | 10,342.5 |
| Pollock, Alaska . . . . . | 31,919.6 | 37,897.4 | 51,885.0 |
| Rockfishes. . . . . | 1,092.0 | 4,002.1 | 3,263.4 |
| Sablefish . . . . . | 5,919.1 | 4,831.3 | 6,882.3 |
| Other finfish . . . . . | 2,270.6 | 5,374.9 | 2,084.5 |
| Squid, unclassified . . . . . | 259.1 | 697.2 | 553.5 |
| Total. . . . . | 72,223.4 | 107,973.1 | 115,814.8 |
| Mexico: | | | |
| Atka mackerel . . . . . | 36.3 | - | - |
| Cod, Pacific. . . . . | 939.3 | - | - |
| Flounders (1) . . . . . | 113.1 | - | - |
| Ocean perch, Pacific. . . . . | 457.0 | - | - |
| Pollock, Alaska . . . . . | 8,676.9 | - | - |
| Rockfishes. . . . . | 5.6 | - | - |
| Sablefish . . . . . | 54.7 | - | - |
| Other finfish . . . . . | 100.8 | - | - |
| Squid, unclassified . . . . . | 12.6 | - | - |
| Total. . . . . | 10,396.3 | - | - |
| Poland: | | | |
| Atka mackerel . . . . . | .4 | 56.9 | 279.5 |
| Cod, Pacific. . . . . | 126.9 | 54.3 | 135.2 |
| Flounders (1) . . . . . | 18.9 | .2 | 14.9 |
| Ocean perch, Pacific. . . . . | 5.3 | 29.8 | 49.5 |
| Pollock, Alaska . . . . . | 19,551.2 | 13,085.0 | 39,886.4 |
| Rockfishes. . . . . | 18.7 | 3.7 | 16.3 |
| Sablefish . . . . . | - | - | 3.6 |
| Other finfish . . . . . | 14.0 | 44.4 | 678.2 |
| Squid, unclassified . . . . . | 9.1 | .1 | 18.7 |
| Total. . . . . | 19,744.5 | 13,274.4 | 41,082.3 |
| Republic of Korea: | | | |
| Atka mackerel . . . . . | 80.5 | 736.1 | 14,811.3 |
| Cod, Pacific. . . . . | 844.1 | 1,665.8 | 7,065.4 |
| Flounders (1) . . . . . | 604.4 | 1,733.8 | 5,026.0 |
| Ocean perch, Pacific. . . . . | 824.9 | 408.2 | 1,785.0 |
| Pollock, Alaska . . . . . | 25,738.8 | 25,012.8 | 38,551.9 |
| Rockfishes. . . . . | 184.9 | 184.0 | 2,399.5 |
| Sablefish . . . . . | 758.6 | 891.5 | 1,061.6 |
| Other finfish . . . . . | 757.1 | 1,448.9 | 4,348.8 |
| Squid, unclassified . . . . . | 143.4 | 107.0 | 562.4 |
| Total. . . . . | 29,936.7 | 32,188.1 | 75,611.9 |

(Continued)

## FOREIGN CATCH

GULF OF ALASKA: FOREIGN CATCH, BY COUNTRY AND SPECIES, 1979-81 - Continued
(Preliminary)

| Country and species | 1979 | 1980 | 1981 |
|---|---|---|---|
| | Metric tons, round weight | | |
| USSR: | | | |
| Atka mackerel | 10,263.6 | 10,473.5 | - |
| Cod, Pacific | 834.7 | 1,942.3 | - |
| Flounders (1) | 368.6 | 1,838.5 | - |
| Ocean perch, Pacific | 1,065.0 | 1,239.2 | - |
| Pollock, Alaska | 17,300.6 | 37,000.8 | - |
| Rockfishes | 121.8 | 9.8 | - |
| Sablefish | 152.1 | 416.0 | - |
| Other finfish | 938.7 | 1,646.1 | - |
| Squid, unclassified | 1.3 | 36.8 | - |
| Total | 31,046.4 | 54,603.0 | - |
| Grand total | 164,433.2 | 209,216.2 | 232,509.0 |

(1) May include yellowfin sole.

Note:--Excludes tunas. Also excludes salmon caught incidentally to other species and returned to sea. Beginning June 4, 1978, Canadian authorities excluded almost all United States fishing vessels from Canadian waters, and United States authorities excluded almost all Canadian fishing vessels from United States waters. In the Pacific, halibut fishing continued under the United States-Canada Halibut Convention. In a 1979 groundfish agreement, Canada, in return for the right to catch a specified amount of halibut in the United States FCZ, granted United States fishermen the right to catch a specified amount of groundfish in the Canadian fishery zone. In the Atlantic, fishing continued by vessels of both nations in a boundary region often referred to as the "disputed zone." Catches are for calendar year only. Some fishing years overlap 2 calendar years.

# U.S. FISHERY CONSERVATION ZONE

## FOREIGN CATCH

EASTERN BERING SEA AND ALEUTIAN ISLANDS: FOREIGN CATCH
BY COUNTRY AND SPECIES, 1979-81
(Preliminary)

| Country and species | 1979 | 1980 | 1981 |
|---|---|---|---|
| | - - - - - - - Metric tons, round weight - - - - - - - | | |
| European Economic Community, Federal Republic of Germany: | | | |
| Atka mackerel | - | 42.2 | 38.0 |
| Cod, Pacific | - | 552.5 | 1,153.0 |
| Flounders, unclassified | - | 15.4 | 22.9 |
| Ocean perch, Pacific | - | 14.8 | 10.6 |
| Pollock, Alaska | - | 5,996.3 | 10,304.6 |
| Rockfishes | - | .3 | 2.4 |
| Sablefish | - | 15.9 | 34.0 |
| Other finfish | - | 38.8 | 298.5 |
| Squid, unclassified | - | 53.3 | 8.8 |
| Total | - | 6,729.5 | 11,872.8 |
| Japan: | | | |
| Atka mackerel | 1,656.2 | 1,718.7 | 5,664.5 |
| Cod, Pacific | 35,470.3 | 29,524.0 | 30,025.6 |
| Flounders: | | | |
| Yellowfin sole | 58,491.0 | 61,295.0 | 63,961.3 |
| Other | 75,824.7 | 74,150.7 | 82,154.3 |
| Herring, sea | 1,707.9 | (1)329.2 | - |
| Ocean perch, Pacific | 6,900.8 | 4,102.7 | 4,250.0 |
| Pollock, Alaska | 779,049.9 | 832,992.6 | 803,461.0 |
| Rockfishes | - | 3,024.0 | 2,168.2 |
| Sablefish | 1,687.9 | 1,881.8 | 2,412.1 |
| Other finfish | 52,676.9 | 39,877.8 | 34,149.1 |
| Crabs, snow (tanner) | 14,953.5 | 7,094.4 | - |
| Snails (meats) | 537.2 | 57.3 | 239.4 |
| Squid, unclassified | 5,739.4 | 4,641.8 | 4,676.9 |
| Total | 1,034,695.7 | 1,060,690.0 | 1,033,162.4 |
| Poland: | | | |
| Atka mackerel | 1.5 | 43.9 | 17.7 |
| Cod, Pacific | 16.5 | 627.5 | 493.2 |
| Flounders: | | | |
| Yellowfin sole | - | 233.6 | 5.8 |
| Other | 1.5 | 610.5 | 86.9 |
| Herring, sea | - | (1)2.0 | - |
| Ocean perch, Pacific | 1.9 | 37.2 | 126.1 |
| Pollock, Alaska | 18,229.9 | 46,145.9 | 53,984.1 |
| Rockfishes | - | 22.8 | 26.3 |
| Sablefish | 1.8 | 152.2 | 13.0 |
| Other finfish | 5.8 | 198.3 | 159.2 |
| Squid, unclassified | 24.6 | 19.5 | 96.0 |
| Total | 18,283.5 | 48,093.4 | 55,008.3 |
| Republic of Korea: | | | |
| Atka mackerel | 1,329.0 | 17,482.9 | 12,384.8 |
| Cod, Pacific | 3,245.4 | 6,404.3 | 6,623.1 |
| Flounders: | | | |
| Yellowfin sole | 1,355.7 | 16,197.9 | 17,179.0 |
| Other | 1,971.8 | 13,622.5 | 8,226.7 |
| Herring, sea | 107.6 | (1)22.7 | - |
| Ocean perch, Pacific | 282.1 | 740.0 | 421.8 |
| Pollock, Alaska | 84,137.4 | 113,864.6 | 116,015.7 |
| Rockfishes | - | 493.0 | 293.3 |
| Sablefish | 425.6 | 349.7 | 394.7 |
| Other finfish | 3,978.1 | 6,791.2 | 4,733.8 |
| Squid, unclassified | 1,233.0 | 1,620.3 | 1,096.7 |
| Total | 98,065.7 | 177,589.1 | 167,369.6 |

(Continued)

## FOREIGN CATCH

EASTERN BERING SEA AND ALEUTIAN ISLANDS: FOREIGN CATCH
BY COUNTRY AND SPECIES, 1979-81 - Continued
(Preliminary)

| Country and species | 1979 | 1980 | 1981 |
|---|---|---|---|
| | Metric tons, round weight | | |
| Taiwan: | | | |
| Cod, Pacific | 39.4 | 199.7 | 847.0 |
| Flounders: | | | |
| Yellowfin sole | 3.0 | 35.1 | 109.0 |
| Other | 19.2 | 126.2 | 1,403.3 |
| Herring, sea | - | (1).5 | - |
| Ocean perch, Pacific | 2.6 | 17.7 | 43.6 |
| Pollock, Alaska | 1,928.6 | 4,973.7 | 3,366.7 |
| Rockfishes | - | 9.3 | 1.3 |
| Sablefish | 6.3 | 38.4 | 102.2 |
| Other finfish | - | 68.5 | 50.5 |
| Squid, unclassified | 14.2 | 38.9 | 55.2 |
| Total | 2,013.3 | 5,508.0 | 5,978.8 |
| USSR: | | | |
| Atka mackerel | 20,277.3 | 937.0 | - |
| Cod, Pacific | 2,645.0 | 10.9 | - |
| Flounders: | | | |
| Yellowfin sole | 41,258.7 | 6.4 | - |
| Other | 12,128.1 | 3.9 | - |
| Herring, sea | 5,717.8 | (1)428.2 | - |
| Ocean perch, Pacific | 21.6 | 4.6 | - |
| Pollock, Alaska | 60,617.4 | 2,156.4 | - |
| Rockfishes | - | 1.6 | - |
| Sablefish | 49.2 | - | - |
| Other finfish | 8,054.4 | 7.7 | - |
| Squid, unclassified | 6.4 | - | - |
| Total | 150,775.9 | 3,556.7 | - |
| Grand total | 1,303,834.1 | 1,302,166.7 | 1,273,391.9 |

(1) Harvested between January 1 and February 8, 1980, and then declared a prohibited species.

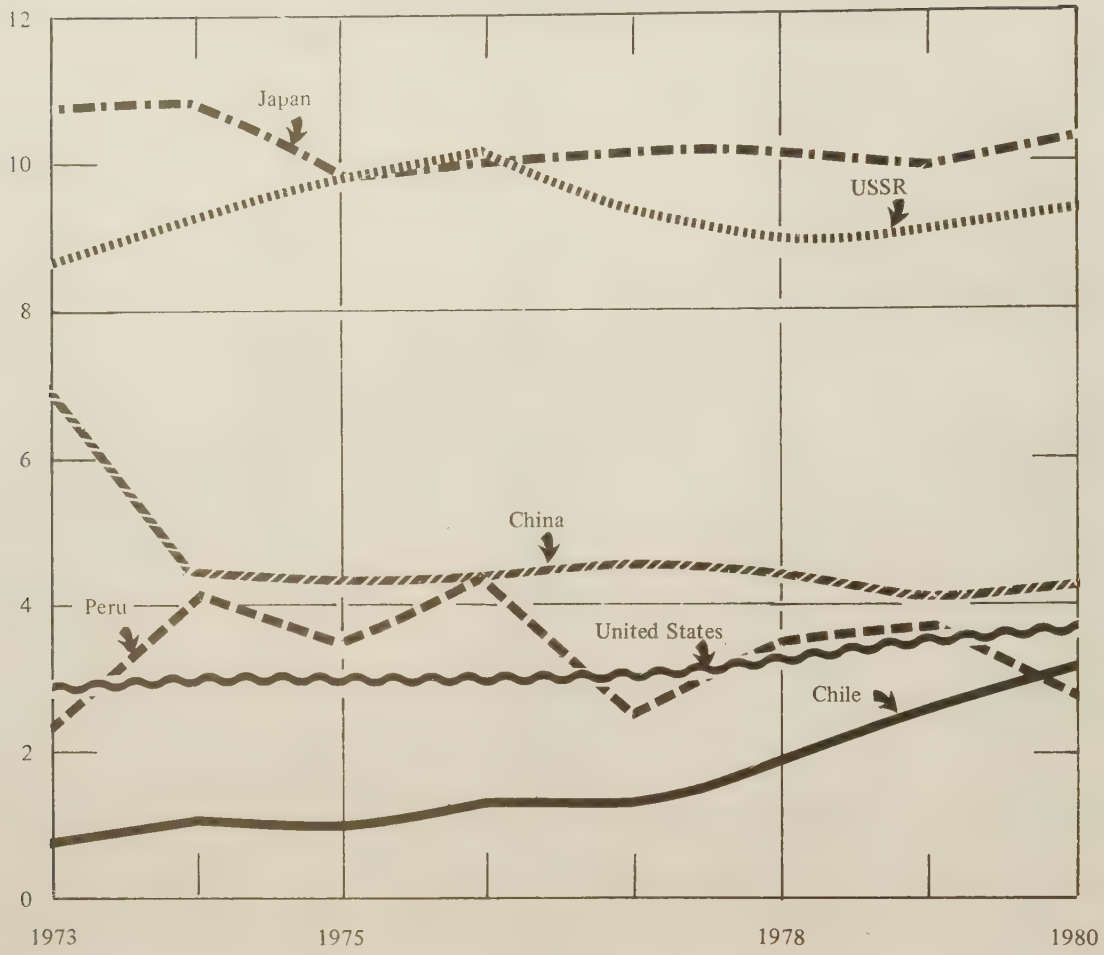
Note:--Excludes tunas. Also excludes salmon caught incidentally to other species and returned to sea. Catches are for calendar year only. Some fishing years overlap 2 calendar years.

HAWAII AND PACIFIC ISLANDS
(WESTERN PACIFIC SEAMOUNT GROUNDFISH FISHERY)
BY COUNTRY AND SPECIES, 1979-81

| Country and species | 1979 | 1980 | 1981 |
|---|---|---|---|
| | Metric tons, round weight | | |
| Japan: | | | |
| Alfonsins and armorheads | 217.8 | 795.2 | 635.8 |
| Other finfishes | - | - | 26.2 |
| Grand total | 217.8 | 795.2 | 662.0 |

Note:--Excludes tunas. Also excludes salmon caught incidentally to other species and returned to sea.

WORLD COMMERICAL CATCH BY LEADING COUNTRIES, 1973-80
(Million metric tons, live weight)




Note:--Does not include marine mammals and aquatic plants.

U.S. AND WORLD COMMERCIAL FISHERY CATCHES, 1950-80

| Year | U.S. commercial catch and exvessel value: Published by U.S. (excludes weight of mollusk shells) | U.S. commercial catch and exvessel value: Published by FAO (includes weight of mollusk shells) | U.S. commercial catch and exvessel value: Exvessel value | World commercial catch: Freshwater | World commercial catch: Marine: Peruvian anchovy | World commercial catch: Marine: Other (1) | World commercial catch: Marine: Total | World commercial catch: Grand total |
|---|---|---|---|---|---|---|---|---|
| | Million metric tons | | Billion dollars | Million metric tons | | | | |
| | Live weight | | | Live weight | | | | |
| 1950 | 2.2 | 2.6 | 0.3 | 2.4 | - | 18.7 | 18.7 | 21.1 |
| 1951 | 2.0 | 2.4 | .4 | 2.6 | - | 20.9 | 20.9 | 23.5 |
| 1952 | 2.0 | 2.4 | .4 | 2.8 | - | 22.3 | 22.3 | 25.1 |
| 1953 | 2.0 | 2.7 | .4 | 3.0 | - | 22.9 | 22.9 | 25.9 |
| 1954 | 2.2 | 2.8 | .4 | 3.2 | - | 24.4 | 24.4 | 27.6 |
| 1955 | 2.2 | 2.8 | .3 | 3.4 | - | 25.5 | 25.5 | 28.9 |
| 1956 | 2.4 | 3.0 | .4 | 3.5 | 0.1 | 27.2 | 27.3 | 30.8 |
| 1957 | 2.2 | 2.8 | .4 | 3.9 | .3 | 27.5 | 27.8 | 31.7 |
| 1958 | 2.2 | 2.7 | .4 | 4.5 | .8 | 28.0 | 28.8 | 33.3 |
| 1959 | 2.3 | 2.9 | .4 | 5.1 | 2.0 | 29.8 | 31.8 | 36.9 |
| 1960 | 2.2 | 2.8 | .4 | 5.6 | 3.5 | 31.1 | 34.6 | 40.2 |
| 1961 | 2.4 | 2.9 | .4 | 5.7 | 5.3 | 32.6 | 37.9 | 43.6 |
| 1962 | 2.4 | 3.0 | .4 | 5.8 | 7.1 | 31.9 | 39.0 | 44.8 |
| 1963 | 2.2 | 2.8 | .4 | 5.9 | 7.2 | 33.5 | 40.7 | 46.6 |
| 1964 | 2.1 | 2.6 | .4 | 6.2 | 9.8 | 35.9 | 45.7 | 51.9 |
| 1965 | 2.2 | 2.7 | .4 | 7.0 | 7.7 | 38.5 | 46.2 | 53.2 |
| 1966 | 1.9 | 2.5 | .5 | 7.3 | 9.6 | 40.4 | 50.0 | 57.3 |
| 1967 | 1.8 | 2.4 | .4 | 7.2 | 10.5 | 42.7 | 53.2 | 60.4 |
| 1968 | 1.9 | 2.5 | .5 | 7.4 | 11.3 | 45.2 | 56.5 | 63.9 |
| 1969 | 1.9 | 2.5 | .5 | 7.6 | 9.7 | 45.4 | 55.1 | 62.7 |
| 1970 | 2.2 | 2.8 | .6 | 8.4 | 13.1 | 46.6 | 59.7 | 65.6 |
| 1971 | 2.3 | 2.9 | .7 | 9.0 | 11.2 | 48.3 | 59.5 | 66.1 |
| 1972 | 2.2 | 2.8 | .7 | 5.7 | 4.8 | 53.7 | 58.5 | 62.0 |
| 1973 | 2.2 | 2.8 | .9 | 5.8 | 1.7 | 55.3 | 57.0 | 62.7 |
| 1974 | 2.3 | 2.8 | .9 | 5.8 | 4.0 | 56.7 | 60.7 | 66.5 |
| 1975 | 2.2 | 2.8 | 1.0 | 6.2 | 3.3 | 56.9 | 60.2 | 66.4 |
| 1976 | 2.4 | 3.0 | 1.3 | 5.9 | 4.3 | 59.6 | 63.9 | 69.8 |
| 1977 | 2.4 | 3.0 | 1.5 | 6.1 | .8 | 62.0 | 62.8 | 68.9 |
| 1978 | 2.7 | 3.4 | 1.9 | 5.8 | 1.4 | 63.2 | 64.6 | 70.4 |
| 1979 | 2.8 | 3.5 | 2.2 | 6.0 | 1.4 | 63.9 | 65.3 | 71.3 |
| 1980 | 2.9 | 3.6 | 2.2 | 6.2 | .8 | 65.2 | 66.0 | 72.2 |

(1) Includes diadromous (salmon and other anadromous fishes and catadromous fishes such as eels).

Note:--There are 2,204.6 pounds in a metric ton. Prior to 1970, the world commercial catch of whales and seals is excluded. For the years 1970-1980, data for marine mammals and aquatic plants are excluded. There is a revision in the total world commercial catch back to 1970 as published in FAO Yearbook of Fishery Statistics, Vol. 48 and 50. However, prior to 1974, data on freshwater and marine catches were not revised. Therefore, for the years 1970 to 1973, data will not add to the grand total.

Source:--Fishery Statistics of the United States, Fisheries of the United States, Food and Agriculture Organization of the United Nations (FAO), Yearbook of Fishery Statistics, various issues.

WORLD COMMERCIAL CATCH OF FISH, CRUSTACEANS, AND MOLLUSKS, BY COUNTRIES, 1976-80
(DOES NOT INCLUDE MARINE MAMMALS AND AQUATIC PLANTS.)

| Country | 1976(1) | 1977(1) | 1978(1) | 1979(1) | 1980 |
|---|---|---|---|---|---|
| | Thousand metric tons | | | | |
| | Live weight | | | | |
| Japan | 9,994 | 10,123 | 10,184 | 9,945 | 10,410 |
| USSR | 10,132 | 9,347 | 8,918 | 9,114 | 9,412 |
| China | 4,320 | 4,463 | 4,394 | 4,054 | 4,240 |
| United States | (2)3,050 | (2)2,980 | (2)3,418 | (2)3,511 | (2)3,635 |
| Chile | 1,379 | 1,319 | 1,929 | 2,632 | 2,817 |
| Peru | 4,344 | 2,534 | 3,472 | 3,681 | 2,731 |
| India | 2,174 | 2,312 | 2,306 | 2,340 | 2,423 |
| Norway | 3,361 | 3,402 | 2,587 | 2,650 | 2,398 |
| Republic of Korea | 2,118 | 2,085 | 2,092 | 2,162 | 2,091 |
| Denmark | 1,912 | 1,806 | 1,740 | 1,738 | 2,027 |
| Indonesia | 1,479 | 1,568 | 1,642 | 1,766 | 1,853 |
| Thailand | 1,659 | 2,188 | 2,095 | 1,716 | 1,650 |
| Philippines | 1,393 | 1,509 | 1,495 | 1,475 | 1,557 |
| Iceland | 986 | 1,374 | 1,567 | 1,645 | 1,515 |
| North Korea | (3)1,120 | (3)1,190 | (3)1,260 | (3)1,330 | (3)1,400 |
| Canada | 1,102 | 1,235 | 1,367 | 1,411 | 1,305 |
| Mexico | 526 | 611 | 703 | 877 | 1,240 |
| Spain | 1,469 | 1,389 | 1,373 | 1,205 | (3)1,240 |
| Vietnam | (3)1,014 | (3)1,014 | (3)1,014 | (3)1,014 | (3)1,014 |
| Brazil | 653 | 748 | 803 | 855 | (3)850 |
| France | 778 | 744 | 768 | 732 | 765 |
| Malaysia | 517 | 619 | 685 | 696 | 737 |
| Ecuador | 298 | 434 | 617 | 644 | (3)671 |
| Bangladesh | 826 | 835 | 640 | 646 | 650 |
| Poland | 750 | 655 | 571 | 601 | 640 |
| Republic of South Africa | 595 | 550 | 605 | 654 | 640 |
| Burma | 502 | 519 | 541 | 565 | 585 |
| Nigeria | 497 | 504 | 519 | 535 | 480 |
| Italy | 420 | 372 | 399 | 426 | 445 |
| Turkey | 153 | 164 | 244 | 350 | 430 |
| Scotland | 476 | 445 | 456 | 382 | 400 |
| England and Wales | 520 | 525 | 548 | 494 | 397 |
| Argentina | 266 | 370 | 519 | 566 | 384 |
| Senegal | 351 | 341 | 353 | 303 | 359 |
| Netherlands | 285 | 313 | 324 | 324 | 340 |
| Morocco | 281 | 255 | 287 | 280 | 298 |
| Federal Republic of Germany | 454 | 432 | 412 | 356 | 297 |
| All others | 7,599 | 7,640 | 7,592 | 7,591 | 7,865 |
| Total | 69,753 | 68,914 | 70,439 | 71,266 | 72,191 |

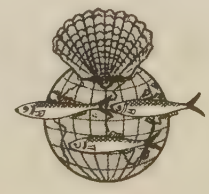
(1) Revised.

(2) Includes the weight of clam, oyster, scallop, and other mollusk shells. This weight is not included in U.S. landings statistics shown elsewhere.

(3) Data estimated by FAO.

Note:--Statistics for mariculture, aquaculture and other kinds of fish farming are included in country totals. Statistics on quantities caught by recreational fishermen are excluded.

Source:--Food and Agriculture Organization of the United Nations (FAO), Yearbook of Fishery Statistics, 1980, Vol. 50.



WORLD COMMERCIAL CATCH OF FISH, CRUSTACEANS, AND MOLLUSKS, BY CONTINENTS, 1976-80
(DOES NOT INCLUDE MARINE MAMMALS AND AQUATIC PLANTS.)

| Continent | 1976(1) | 1977(1) | 1978(1) | 1979(1) | 1980 |
|---|---|---|---|---|---|
| | Thousand metric tons | | | | |
| | Live weight | | | | |
| Asia | 28,472 | 29,721 | 29,731 | 29,276 | 30,290 |
| Europe | 13,399 | 13,282 | 12,494 | 12,284 | 12,366 |
| USSR | 10,132 | 9,348 | 8,919 | 9,113 | 9,412 |
| South America | 7,226 | 5,697 | 7,689 | 8,717 | 7,851 |
| North and Central America | 5,187 | 5,403 | 6,020 | 6,339 | 6,805 |
| Africa | 4,230 | 4,181 | 4,254 | 4,169 | 4,105 |
| Oceania | 294 | 293 | 345 | 353 | 347 |
| Other | 813 | 989 | 987 | 1,015 | 1,015 |
| Total | 69,753 | 68,914 | 70,439 | 71,266 | 72,191 |

(1) Revised.

Source:--Food and Agriculture Organization of the United Nations (FAO), Yearbook of Fishery Statistics, 1980, Vol. 50.

WORLD COMMERCIAL CATCH OF FISH, CRUSTACEANS, AND MOLLUSKS, BY MAJOR FISHING AREAS, 1976-80
(DOES NOT INCLUDE MARINE MAMMALS AND AQUATIC PLANTS.)

| Area | 1976(1) | 1977(1) | 1978(1) | 1979(1) | 1980 |
|---|---|---|---|---|---|
| | Thousand metric tons | | | | |
| | Live weight | | | | |
| Marine areas: | | | | | |
| Pacific Ocean and adjacent areas | 32,917 | 32,076 | 34,124 | 35,293 | 35,450 |
| Atlantic Ocean and adjacent areas | 26,611 | 25,936 | 25,700 | 25,176 | 25,375 |
| Indian Ocean and adjacent areas | 3,107 | 3,533 | 3,511 | 3,443 | 3,751 |
| Total | 62,635 | 61,545 | 63,335 | 63,912 | 64,576 |
| Inland waters: | | | | | |
| Asia | 4,268 | 4,387 | 4,175 | 4,344 | 4,606 |
| Africa | 1,421 | 1,511 | 1,466 | 1,512 | 1,497 |
| USSR | 770 | 771 | 731 | 805 | 747 |
| Europe | 290 | 307 | 302 | 310 | 330 |
| South America | 224 | 243 | 273 | 226 | 260 |
| North and Central America | 143 | 147 | 155 | 155 | 173 |
| Oceania | 2 | 3 | 2 | 2 | 2 |
| Total | 7,118 | 7,369 | 7,104 | 7,354 | 7,615 |
| Grand total | 69,753 | 68,914 | 70,439 | 71,266 | 72,191 |

(1) Revised.

Source:--Food and Agriculture Organization of the United Nations (FAO), Yearbook of Fishery Statistics, 1980, Vol. 50.

WORLD COMMERCIAL CATCH OF FISH, CRUSTACEANS, AND MOLLUSKS, BY SPECIES GROUPS, 1976-80
(DOES NOT INCLUDE MARINE MAMMALS AND AQUATIC PLANTS.)

| Species group | 1976(1) | 1977(1) | 1978(1) | 1979(1) | 1980 |
|---|---|---|---|---|---|
| | Thousand metric tons | | | | |
| | Live weight | | | | |
| Herring, sardines, anchovies, et al. | 14,999 | 12,650 | 14,380 | 15,719 | 16,225 |
| Cods, hakes, haddocks, et al. | 12,125 | 10,597 | 10,303 | 10,609 | 10,720 |
| Miscellaneous marine and diadromous fishes | 7,769 | 7,836 | 7,746 | 7,219 | 7,707 |
| Jacks, mullets, sauries, et al. | 7,489 | 8,797 | 8,128 | 7,951 | 7,338 |
| Freshwater fishes | 5,942 | 6,074 | 5,783 | 5,984 | 6,197 |
| Redfish, basses, congers, et al. | 5,155 | 5,721 | 5,610 | 5,358 | 5,247 |
| Mollusks | 4,392 | 4,628 | 4,768 | 4,937 | 5,218 |
| Mackerels, snoeks, cutlassfishes, et al. | 3,826 | 4,063 | 4,755 | 4,415 | 4,226 |
| Crustaceans | 2,518 | 2,818 | 2,952 | 3,135 | 3,267 |
| Tunas, bonitos, billfishes, et al. | 2,301 | 2,363 | 2,478 | 2,385 | 2,490 |
| Flounders, halibuts, soles, et al. | 1,134 | 1,084 | 1,210 | 1,146 | 1,084 |
| Shads, milkfishes, et al. | 766 | 768 | 812 | 770 | 818 |
| Salmon, trouts, smelts, et al. | 556 | 631 | 624 | 751 | 770 |
| Sharks, rays, chimaeras, et al. | 553 | 557 | 594 | 580 | 583 |
| River eels | 67 | 70 | 75 | 85 | 92 |
| Sturgeons, paddlefishes, et al. | 31 | 32 | 28 | 29 | 29 |
| Miscellaneous | 130 | 226 | 194 | 194 | 179 |
| Total (2) | 69,753 | 68,914 | 70,439 | 71,266 | 72,191 |

(1) Revised.
(2) May not add to total because of rounding.

Source:--Food and Agriculture Organization of the United Nations (FAO), Yearbook of Fishery Statistics, 1980, Vol. 50.

DISPOSITION OF WORLD COMMERCIAL CATCH, 1976-80
(DOES NOT INCLUDE MARINE MAMMALS AND AQUATIC PLANTS.)

| Item | 1976(1) | 1977(1) | 1978(1) | 1979 | 1980 |
|---|---|---|---|---|---|
| | Percent of total | | | | |
| Marketed fresh | 20.1 | 21.4 | 20.5 | 19.4 | 20.5 |
| Frozen | 21.0 | 21.3 | 21.4 | 21.7 | 21.7 |
| Canned | 13.5 | 13.9 | 13.8 | 14.1 | 14.1 |
| Cured | 13.9 | 13.9 | 13.5 | 13.2 | 13.7 |
| Reduced to meal and oil(2) | 30.1 | 28.1 | 29.4 | 30.2 | 28.6 |
| Miscellaneous purposes | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 |
| Total | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |

(1) Revised.
(2) Only whole fish destined for the manufacture of oils and meals is included. Raw material for reduction derived from fish primarily destined for marketing fresh, frozen, canned, cured, and miscellaneous purposes is excluded; such waste quantities are included under the other disposition channels.

Source:--Food and Agriculture Organization of the United Nations (FAO), Yearbook of Fishery Statistics, 1980, Vol. 51.

WORLD IMPORTS AND EXPORTS OF SEVEN FISHERY COMMODITY GROUPS, BY LEADING COUNTRIES, 1977-80

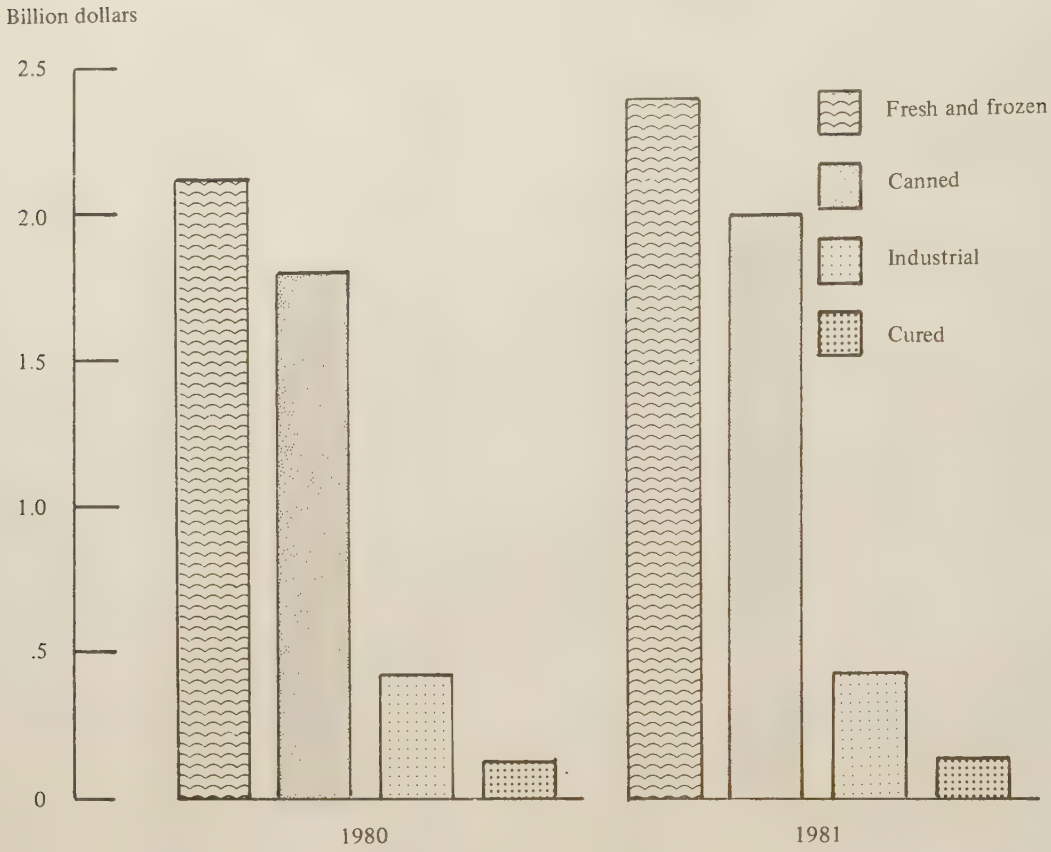
| Country | 1977 | 1978 | 1979 | 1980 |
|---|---|---|---|---|
| | Thousand U.S. dollars | | | |
| IMPORTS | | | | |
| Japan | 2,296,419 | 3,041,612 | 4,018,221 | 3,114,613 |
| United States | 2,085,846 | 2,228,173 | 2,674,168 | 2,633,160 |
| France | 655,107 | 812,133 | 997,959 | 1,131,198 |
| United Kingdom | 556,163 | 686,860 | 900,525 | 1,033,566 |
| Federal Republic of Germany | 666,535 | 766,263 | 884,757 | (1)1,022,986 |
| Italy | 425,252 | 547,012 | 722,210 | 831,727 |
| Spain | 155,760 | 245,672 | 409,537 | 542,355 |
| Belgium | 256,478 | 300,358 | 375,500 | 408,341 |
| Netherlands | 257,590 | 326,974 | 368,894 | 389,406 |
| Hong Kong | 213,139 | 252,377 | 306,736 | 357,738 |
| Denmark | 175,109 | 220,990 | 269,548 | 330,665 |
| Sweden | 218,433 | 245,914 | 291,970 | 325,160 |
| Canada | 205,756 | 216,411 | 266,463 | 299,049 |
| Australia | 129,300 | 137,469 | 145,543 | 214,648 |
| Switzerland | 138,554 | 172,982 | 190,009 | 211,739 |
| Singapore | 87,587 | 101,497 | 110,720 | 139,116 |
| Nigeria | 114,402 | 116,173 | 122,368 | (1)122,368 |
| Poland | 76,129 | 95,370 | 102,780 | (1)102,780 |
| Other countries | 1,382,348 | 1,631,883 | 1,894,214 | 2,082,919 |
| Total | 10,095,907 | 12,146,123 | 15,052,122 | 15,293,534 |
| EXPORTS | | | | |
| Canada | 756,594 | 981,226 | 1,111,006 | 1,073,315 |
| Denmark | 628,665 | 731,227 | 859,071 | 999,713 |
| United States | 508,062 | 895,709 | 1,070,846 | 993,352 |
| Norway | 805,392 | 759,769 | 890,906 | 974,661 |
| Japan | 631,355 | 754,840 | 719,850 | 905,190 |
| Iceland | 381,066 | 506,789 | 594,898 | 708,632 |
| Republic of Korea | 696,708 | 639,346 | 795,385 | 677,722 |
| Mexico | 197,055 | 392,692 | 452,672 | 580,230 |
| Netherlands | 314,687 | 399,579 | 503,493 | 524,567 |
| Chile | 124,285 | 171,339 | 222,454 | 367,200 |
| United Kingdom | 197,027 | 283,177 | 331,101 | 365,168 |
| Thailand | 174,342 | 250,278 | 359,992 | (1)360,717 |
| Spain | 236,420 | 281,033 | 410,227 | 343,771 |
| France | 150,955 | 198,955 | 261,034 | 320,285 |
| Federal Republic of Germany | 225,539 | 241,953 | 280,246 | (1)317,969 |
| China | (1)16,066 | (1)240,634 | (1)294,582 | (1)308,868 |
| Peru | 226,044 | (1)252,385 | 314,457 | (1)308,400 |
| USSR | 195,199 | 238,853 | 299,573 | 300,756 |
| Other countries | 2,877,861 | 3,312,287 | 4,258,292 | 4,460,193 |
| Total | 9,343,322 | 11,532,071 | 14,030,085 | 14,890,709 |

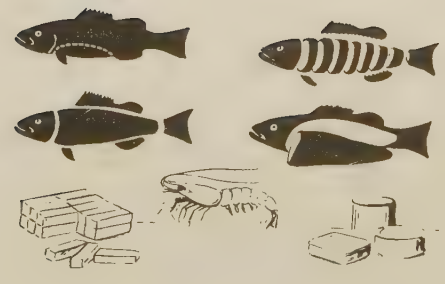
(1) Estimated by FAO.

Note:--Data on imports and exports cover the international trade of 158 countries. The total value of exports is consistently less than the total value of imports, probably because charges for insurance, freight, and similar expenses were included in the import value but not in the export value. The seven fishery commodity groups covered by this table are: 1. Fish, fresh, chilled or frozen; 2. Fish, dried, salted, or smoked; 3. Crustaceans and mollusks, fresh, frozen, dried, salted etc.; 4. Fish products and preparations, whether or not in airtight containers; 5. Crustacean and mollusk products and preparations, whether or not in airtight containers; 6. Oils and fats, crude or refined, of aquatic animal origin; and 7. Meals, solubles, and similar animal foodstuffs of aquatic animal origin.

Source:--Food and Agriculture Organization of the United Nations (FAO), Yearbook of Fishery Statistics, 1980, Vol. 51.

VALUE OF PROCESSED FISHERY PRODUCTS, 1980-81
(Processed from domestic catch and imported products)



VALUE OF PROCESSED FISHERY PRODUCTS, 1980 AND 1981
(Processed from domestic catch and imported products)

| Item | 1980 | | 1981 (1) | |
|---|---|---|---|---|
| | Thousand dollars | Percent of total | Thousand dollars | Percent of total |
| Edible: | | | | |
| Fresh and frozen: | | | | |
| Fillets and steaks, raw. | 261,210 | 5.8 | 304,507 | 6.2 |
| Fish sticks. | 88,762 | 2.0 | 99,376 | 2.0 |
| Fish portions. | 388,430 | 8.7 | 363,195 | 7.4 |
| Breaded shrimp | 254,283 | 5.7 | 254,487 | 5.2 |
| Other. | 1,117,434 | 25.1 | 1,350,000 | 27.5 |
| Total. | 2,110,119 | 47.3 | 2,371,565 | 48.3 |
| Canned | 1,803,823 | 40.5 | 1,966,546 | 40.1 |
| Cured. | 124,843 | 2.8 | 136,000 | 2.8 |
| Total edible | 4,038,785 | 90.6 | 4,474,111 | 91.2 |
| Industrial: | | | | |
| Bait and animal food (canned). | 145,708 | 3.3 | 213,407 | 4.3 |
| Fish meal, oil, and solubles. | 206,081 | 4.6 | 166,667 | 3.4 |
| Other. | 65,902 | 1.5 | 53,593 | 1.1 |
| Total industrial | 417,691 | 9.4 | 433,667 | 8.8 |
| Grand total. | 4,456,476 | 100.0 | 4,907,778 | 100.0 |

(1) Preliminary.

Note:--Includes value of sealskins and the value of imported items that may be further processed in the United States for 1980. Value is based on selling price at the plant.

## FISH STICKS, FISH PORTIONS, AND BREADED SHRIMP

PRODUCTION OF FISH STICKS, FISH PORTIONS, AND BREADED SHRIMP, 1972-81

| Year | Fish sticks | | Fish portions | | Breaded shrimp | |
|---|---|---|---|---|---|---|
| | Thousand pounds | Thousand dollars | Thousand pounds | Thousand dollars | Thousand pounds | Thousand dollars |
| 1972. | 114,493 | 61,491 | 269,204 | 149,148 | 107,375 | 140,933 |
| 1973. | *127,156 | 79,818 | 298,396 | 198,984 | *111,922 | 176,793 |
| 1974. | 103,059 | 64,599 | 276,226 | 193,830 | 91,778 | 142,559 |
| 1975. | 91,166 | 62,182 | 295,613 | 216,253 | 97,694 | 176,742 |
| 1976. | 94,169 | 73,182 | 344,284 | 286,240 | 95,923 | 202,972 |
| 1977. | 87,230 | 68,727 | 355,443 | 341,760 | 97,518 | 216,551 |
| 1978. | 94,674 | 86,712 | 389,430 | 415,892 | 110,888 | 258,467 |
| 1979. | 96,050 | *99,790 | *396,089 | *429,164 | 98,993 | *277,460 |
| 1980. | 88,429 | 88,762 | 344,249 | 388,430 | 83,182 | 254,283 |
| 1981 (1). | 91,995 | 99,376 | 313,454 | 363,195 | 88,076 | 254,487 |

(1) Data for 1981 include only those firms reporting quarterly. Data for previous years include firms reporting annually or quarterly. *Record. Note:--Fish Sticks, Fish Portions, and Breaded Shrimp, Annual Summary, 1981, Current Fishery Statistics No. 8204 will give additional information.

# PROCESSED FISHERY PRODUCTS

## FISH FILLETS AND STEAKS

PRODUCTION OF FRESH AND FROZEN FILLETS AND STEAKS, BY SPECIES, 1980 AND 1981

| Species | 1980 | | 1981 | |
|---|---|---|---|---|
| | Thousand pounds | Thousand dollars | Thousand pounds | Thousand dollars |
| Fillets: | | | | |
| Anglerfish | 1,571 | 1,801 | 1,021 | 1,122 |
| Buffalofish | 229 | 138 | 140 | 131 |
| Carp | 2,317 | 1,467 | 2,702 | 1,529 |
| Cod | 31,259 | 43,266 | 40,642 | 65,743 |
| Cusk | 1,229 | 1,418 | 1,004 | 1,296 |
| Flounders | 48,900 | 87,418 | 53,757 | 101,570 |
| Groupers | 388 | 1,331 | 882 | 2,866 |
| Haddock | 17,250 | 29,034 | 17,419 | 32,237 |
| Hake, Atlantic | 989 | 1,154 | 1,020 | 1,235 |
| Halibut | 577 | 1,030 | 119 | 435 |
| Herring, sea | 35,302 | 15,724 | 23,026 | 9,316 |
| Lingcod | 912 | 1,005 | 1,219 | 1,351 |
| Ocean perch: | | | | |
| Atlantic | 7,117 | 9,256 | 5,369 | 7,522 |
| Pacific | 1,642 | 1,658 | 1,669 | 1,818 |
| Pollock, Atlantic | 8,455 | 8,521 | 8,991 | 9,555 |
| Rockfishes | 14,193 | 12,857 | 17,551 | 16,334 |
| Sablefish | 2,038 | 1,615 | 1,945 | 1,552 |
| Salmon | 197 | 399 | 164 | 597 |
| Snapper, red | 494 | 1,825 | 518 | 1,917 |
| Spanish mackerel | 239 | 328 | 198 | 282 |
| Whitefish | 684 | 1,488 | 641 | 1,469 |
| Whiting, Atlantic | 593 | 486 | 214 | 227 |
| Yellow perch | 1,747 | 4,614 | 1,429 | 4,793 |
| Yellow pike | 544 | 1,808 | 579 | 1,871 |
| Unclassified | 18,010 | 17,811 | 19,075 | 19,468 |
| Total | 196,876 | 247,452 | 201,294 | 286,236 |
| Steaks: | | | | |
| Cod | 378 | 396 | 64 | 80 |
| Halibut | 2,229 | 5,956 | 2,773 | 7,099 |
| King mackerel | 79 | 117 | 1,130 | 1,357 |
| Salmon | 1,430 | 4,027 | 1,665 | 4,475 |
| Swordfish | 893 | 2,900 | 1,162 | 4,481 |
| Tuna | (1) | (1) | 116 | 372 |
| Unclassified | 177 | 362 | 146 | 407 |
| Total | 5,186 | 13,758 | 7,056 | 18,271 |
| Grand total | 202,062 | 261,210 | 208,350 | 304,507 |

(1) Included with unclassified. Note:--The following amounts of frozen fish blocks were produced from the fillets reported above: 1,205,000 lb valued at $1,687,000 in 1980 and 1,029,000 lb valued at $1,046,000 in 1981. Final data for 1981 will be published in Production of Fish Fillets and Steaks, Annual Summary, 1981, Current Fishery Statistics No. 8208.

## CANNED FISHERY PRODUCTS

PRODUCTION OF CANNED FISHERY PRODUCTS, BY SPECIES, 1980 AND 1981

| Species | Pounds per case | 1980 | | | 1981 | | |
|---|---|---|---|---|---|---|---|
| | | Standard cases | Thousand pounds | Thousand dollars | Standard cases | Thousand pounds | Thousand dollars |
| For human consumption: | | | | | | | |
| Fish: | | | | | | | |
| Gefiltefish | 48 | 238,044 | 11,426 | 9,892 | 283,426 | 13,604 | 14,669 |
| Herring and herring specialties | 48 | 135,918 | 6,524 | 10,580 | 85,808 | 4,119 | 6,320 |
| Mackerel | 45 | 849,822 | 38,242 | 11,512 | 809,312 | 36,419 | 11,158 |
| Roe and caviar | 48 | 13,979 | 671 | 3,832 | 4,942 | 237 | 1,391 |
| Salmon: | | | | | | | |
| Natural | 48 | 4,201,756 | 201,684 | 403,841 | 4,535,264 | 217,693 | 415,894 |
| Specialties | 48 | 2,101 | 100 | 512 | 2,387 | 115 | 629 |
| Sardines, Maine | 23.4 | 846,533 | 19,809 | 31,554 | 1,630,949 | 38,164 | 54,890 |
| Tuna: | | | | | | | |
| Solid | 21 | 5,134,332 | 107,821 | 236,079 | 5,600,217 | 117,604 | 275,044 |
| Chunks | 19.5 | 24,997,374 | 487,449 | 898,057 | 26,207,240 | 511,041 | 991,200 |
| Flakes and grated | 18 | 377,016 | 6,786 | 9,391 | 576,767 | 10,382 | 15,483 |
| Total tuna | -- | 30,508,722 | 602,056 | 1,143,527 | 32,384,224 | 639,027 | 1,281,727 |
| Specialties | 48 | 4,392 | 211 | 320 | 7,182 | 345 | 428 |
| Tunalike fish | (1) | 224,193 | 4,509 | 5,476 | 262,844 | 5,256 | 6,206 |
| Other | -- | 95,977 | 4,607 | 3,351 | 180,588 | 8,662 | 8,359 |
| Total fish | -- | 37,121,437 | 889,839 | 1,624,397 | 40,186,926 | 963,641 | 1,801,671 |
| Shellfish: | | | | | | | |
| Clams: | | | | | | | |
| Whole and minced (2) | 15 | 730,072 | 10,951 | 27,448 | 791,659 | 11,875 | 28,241 |
| Chowder and juice (2) | 30 | 2,216,406 | 66,492 | 38,902 | 2,264,348 | 67,930 | 40,474 |
| Specialties | 48 | 153,716 | 7,378 | 8,271 | 123,828 | 5,944 | 6,863 |
| Crabs: | | | | | | | |
| Natural | 19.5 | 233,536 | 4,554 | 22,809 | 176,068 | 3,433 | 18,560 |
| Specialties | 48 | 5,039 | 242 | 273 | 6,533 | 314 | 357 |
| Oysters: | | | | | | | |
| Natural (3) | 7 | (4) | (4) | (4) | 63,019 | 441 | 1,192 |
| Specialties | 48 | 126,849 | 6,089 | 5,424 | 158,147 | 7,591 | 4,582 |
| Shrimp: | | | | | | | |
| Natural (3) | 6.75 | 2,353,542 | 15,886 | 70,504 | 1,838,537 | 12,410 | 59,229 |
| Specialties | 48 | 22,884 | 1,098 | 939 | 22,383 | 1,074 | 928 |
| Squid | 48 | 83,743 | 4,020 | 1,017 | 122,232 | 5,867 | 1,519 |
| Other | 48 | 125,169 | 6,008 | 3,839 | 39,528 | 1,897 | 2,930 |
| Total shellfish | -- | 6,050,956 | 122,718 | 179,426 | 5,606,282 | 118,776 | 164,875 |
| Total for human consumption | -- | 43,172,393 | 1,012,557 | 1,803,823 | 45,793,208 | 1,082,417 | 1,966,546 |
| For bait and animal food: | | | | | | | |
| Animal food | 48 | 10,548,132 | 506,310 | 143,959 | 10,850,450 | 520,822 | 211,575 |
| Salmon eggs, et al. | 48 | 10,557 | 507 | 1,749 | 16,966 | 814 | 1,832 |
| Total for bait and animal food | 48 | 10,558,689 | 506,817 | 145,708 | 10,867,416 | 521,636 | 213,407 |
| Grand total | -- | 53,731,082 | 1,519,374 | 1,949,531 | 56,600,624 | 1,604,053 | 2,179,953 |

(1) Pounds per standard case are: solid pack (7 oz net per can) 21 lb; chunk (6.50 oz net per can) 19.5 lb; and flakes and grated (6 oz net per can) 18 lb. (2) "Cut out" or "drained" weight of can contents are given for whole or minced clams, and net contents for other clam products. (3) Drained weight. (4) Included with other shellfish.

Note:--Final figures will be published in Canned Fishery Products, Annual Summary, 1981 Current Fishery Statistics No. 8201.

PRODUCTION OF CANNED TUNA, 1979-81

| Item | Pounds per case | 1979 | | 1980 | | 1981 | |
|---|---|---|---|---|---|---|---|
| | | Thousand standard cases | Thousand dollars | Thousand standard cases | Thousand dollars | Thousand standard cases | Thousand dollars |
| Albacore: | | | | | | | |
| Solid. . . . . | 21 | 4,494 | 193,941 | 4,350 | 204,661 | 4,823 | 242,385 |
| Chunk. . . . . | 19.5 | 1,033 | 42,127 | 965 | 41,734 | 978 | 43,937 |
| Flakes and grated. . | 18 | 278 | 7,783 | 190 | 5,895 | 228 | 7,631 |
| Total . . . . . | -- | 5,805 | 243,851 | 5,505 | 252,290 | 6,029 | 293,953 |
| Lightmeat: | | | | | | | |
| Solid. . . . . | 21 | 1,341 | 51,522 | 784 | 31,418 | 777 | 32,659 |
| Chunk. . . . . | 19.5 | 23,957 | 800,488 | 24,032 | 856,323 | 25,229 | 947,263 |
| Flakes and grated. . | 18 | 300 | 7,988 | 187 | 3,496 | 349 | 7,852 |
| Total . . . . . | -- | 25,598 | 859,998 | 25,003 | 891,237 | 26,355 | 987,774 |
| Grand total . . . | -- | 31,403 | 1,103,849 | 30,508 | 1,143,527 | 32,384 | 1,281,727 |

PRODUCTION OF CANNED SHRIMP, BY AREA, 1979-81

| Area | Pounds per case | 1979 | | 1980 | | 1981 | |
|---|---|---|---|---|---|---|---|
| | | Thousand standard cases | Thousand dollars | Thousand standard cases | Thousand dollars | Thousand standard cases | Thousand dollars |
| Gulf States. . . . . | 6.75 | 900 | 30,148 | 1,753 | 58,725 | 1,070 | 36,050 |
| Pacific States . . . . | 6.75 | 520 | 9,941 | 601 | 11,779 | 769 | 23,179 |
| Total . . . . . | -- | 1,420 | 40,089 | 2,354 | 70,504 | 1,839 | 59,229 |

PRODUCTION OF CANNED SALMON, 1979-81

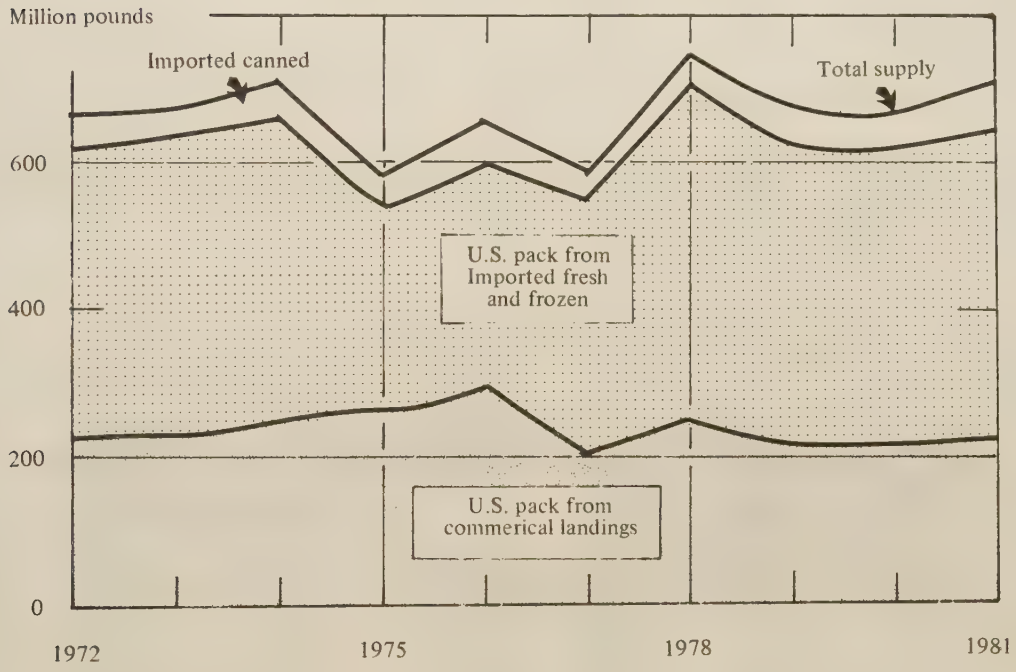
| Item | Pounds per case | 1979 | | 1980 | | 1981 | |
|---|---|---|---|---|---|---|---|
| | | Thousand standard cases | Thousand dollars | Thousand standard cases | Thousand dollars | Thousand standard cases | Thousand dollars |
| Chinook or king. . . . | 48.0 | 15 | 1,446 | 16 | 1,480 | 9 | 790 |
| Chum or keta . . . . . | 48.0 | 144 | 10,057 | 439 | 34,052 | 620 | 45,940 |
| Pink . . . . . | 48.0 | 1,897 | 148,202 | 2,112 | 169,825 | 2,574 | 221,905 |
| Red or sockeye . . . . | 48.0 | 1,037 | 112,598 | 1,579 | 193,119 | 1,292 | 143,557 |
| Silver or coho . . . . | 48.0 | 33 | 2,881 | 55 | 5,365 | 40 | 3,702 |
| Total . . . . . | -- | 3,126 | 275,184 | 4,201 | 403,841 | 4,535 | 415,894 |

PRODUCTION OF CANNED FISHERY PRODUCTS, 1972-81

| Year | For human consumption | | For animal food and bait | | Total | |
|---|---|---|---|---|---|---|
| | Thousand pounds | Thousand dollars | Thousand pounds | Thousand dollars | Thousand pounds | Thousand dollars |
| 1972. . . . | 930,232 | 853,495 | 666,598 | 141,427 | 1,596,830 | 994,922 |
| 1973. . . . | 951,000 | 996,302 | *696,357 | 170,858 | *1,647,357 | 1,167,160 |
| 1974. . . . | 963,232 | 1,127,416 | 590,774 | 178,431 | 1,554,006 | 1,305,847 |
| 1975. . . . | 802,112 | 919,692 | 583,751 | 152,253 | 1,385,863 | 1,071,945 |
| 1976. . . . | 904,498 | 1,220,559 | 660,659 | 197,955 | 1,565,157 | 1,418,514 |
| 1977. . . . | 923,660 | 1,404,534 | 512,683 | 170,155 | 1,436,343 | 1,574,689 |
| 1978. . . . | 1,076,254 | 1,748,068 | 539,234 | 164,959 | 1,615,488 | 1,913,027 |
| 1979. . . . | 961,134 | 1,601,847 | 479,764 | 150,316 | 1,440,898 | 1,752,163 |
| 1980. . . . | 1,012,557 | 1,803,823 | 506,817 | 145,708 | 1,519,374 | 1,949,531 |
| 1981. . . . | *1,082,417 | *1,966,546 | 521,636 | *213,407 | 1,604,053 | *2,179,953 |

*Record.

U.S. SUPPLY OF CANNED TUNA, 1972-81



# PROCESSED FISHERY PRODUCTS

## INDUSTRIAL PRODUCTS

PRODUCTION OF FISH MEAL, OIL, AND SOLUBLES, 1980 and 1981

| Product | 1980 | | 1981 | |
|---|---|---|---|---|
| | Short tons | Thousand dollars | Short tons | Thousand dollars |
| Dried scrap and meal: | | | | |
| Fish: | | | | |
| Anchovy | 7,834 | 2,927 | 10,230 | 3,695 |
| Menhaden (1) | 271,181 | 102,077 | 230,824 | 89,392 |
| Tuna and mackerel | 47,019 | 16,186 | 47,179 | 16,116 |
| Unclassified | 29,293 | 11,679 | 21,904 | 8,356 |
| Total | 355,327 | 132,869 | 310,137 | 117,559 |
| Shellfish | 6,595 | 800 | 8,294 | 1,062 |
| Grand total | 361,922 | 133,669 | 318,431 | 118,621 |
| Solubles: | | | | |
| Menhaden (1) | 99,375 | 10,245 | 99,739 | 11,367 |
| Unclassified | 34,307 | 4,231 | 28,882 | 3,594 |
| Total | 133,682 | 14,476 | 128,621 | 14,961 |
| | Thousand pounds | Thousand dollars | Thousand pounds | Thousand dollars |
| Body oil: | | | | |
| Anchovy | 2,283 | 375 | 1,715 | 267 |
| Menhaden (1) | 291,434 | 54,173 | 170,048 | 30,778 |
| Tuna and mackerel | 4,093 | 491 | 4,487 | 565 |
| Unclassified (2) | 14,701 | 2,897 | 8,053 | 1,475 |
| Total | 312,511 | 57,936 | 184,303 | 33,085 |

(1) May include small quantities made from other species. (2) Includes a small amount of liver oils.

Note:--To convert pounds of oil to gallons divide by 7.75. The above data include production in American Samoa and Puerto Rico. Final data will be published in Industrial Fishery Products, Annual Summary, 1981, Current Fisheries Statistics No. 8202.

PRODUCTION OF INDUSTRIAL PRODUCTS, 1972-81

| Year | Quantity | | | Value | | | |
|---|---|---|---|---|---|---|---|
| | Fish meal | Fish solubles | Marine animal oil | Fish meal, solubles, and oil | Shell products (1) | Other industrial products | Grand total |
| | Short tons | Short tons | Thousand pounds | Thousand dollars | | | |
| 1972 | 285,506 | 134,395 | 188,445 | 67,133 | 4,210 | 84,639 | 155,982 |
| 1973 | 287,517 | 137,435 | 224,634 | 160,914 | 4,015 | 37,899 | 202,828 |
| 1974 | 300,714 | 137,259 | 237,980 | 145,325 | 4,651 | 48,858 | 198,834 |
| 1975 | 290,431 | 127,850 | 245,653 | 106,901 | 5,847 | 49,550 | 162,297 |
| 1976 | 309,694 | 133,107 | 204,581 | 142,228 | 6,085 | 36,437 | 184,750 |
| 1977 | 282,291 | 122,330 | 133,182 | 139,423 | 6,708 | 44,441 | 190,572 |
| 1978 | 362,910 | 162,543 | 296,287 | 204,211 | 4,465 | 42,247 | 250,923 |
| 1979 | *374,293 | 134,928 | 267,949 | 200,690 | (2) | 58,768 | 259,458 |
| 1980 | 361,922 | 133,682 | *312,511 | *206,081 | (2) | 63,525 | *269,606 |
| 1981 | 318,431 | 128,621 | 184,303 | 166,667 | (2) | 53,593 | 220,260 |

(1) Beginning in 1972, data include only the value of oyster shell products. Data for marine-shell and mussel-shell products are included with "other industrial products." (2) Included with "other industrial products." *Record. Record fish soluble production, 165,359 short tons in 1959; and shell products, $17.3 million in 1950.

Note:--Does not include the value of imported items that may be further processed, or the value of sealskins. Table may not add because of rounding.

# COLD STORAGE HOLDINGS

## FROZEN FISHERY PRODUCTS

U.S. COLD STORAGE HOLDINGS OF FISHERY PRODUCTS, 1981

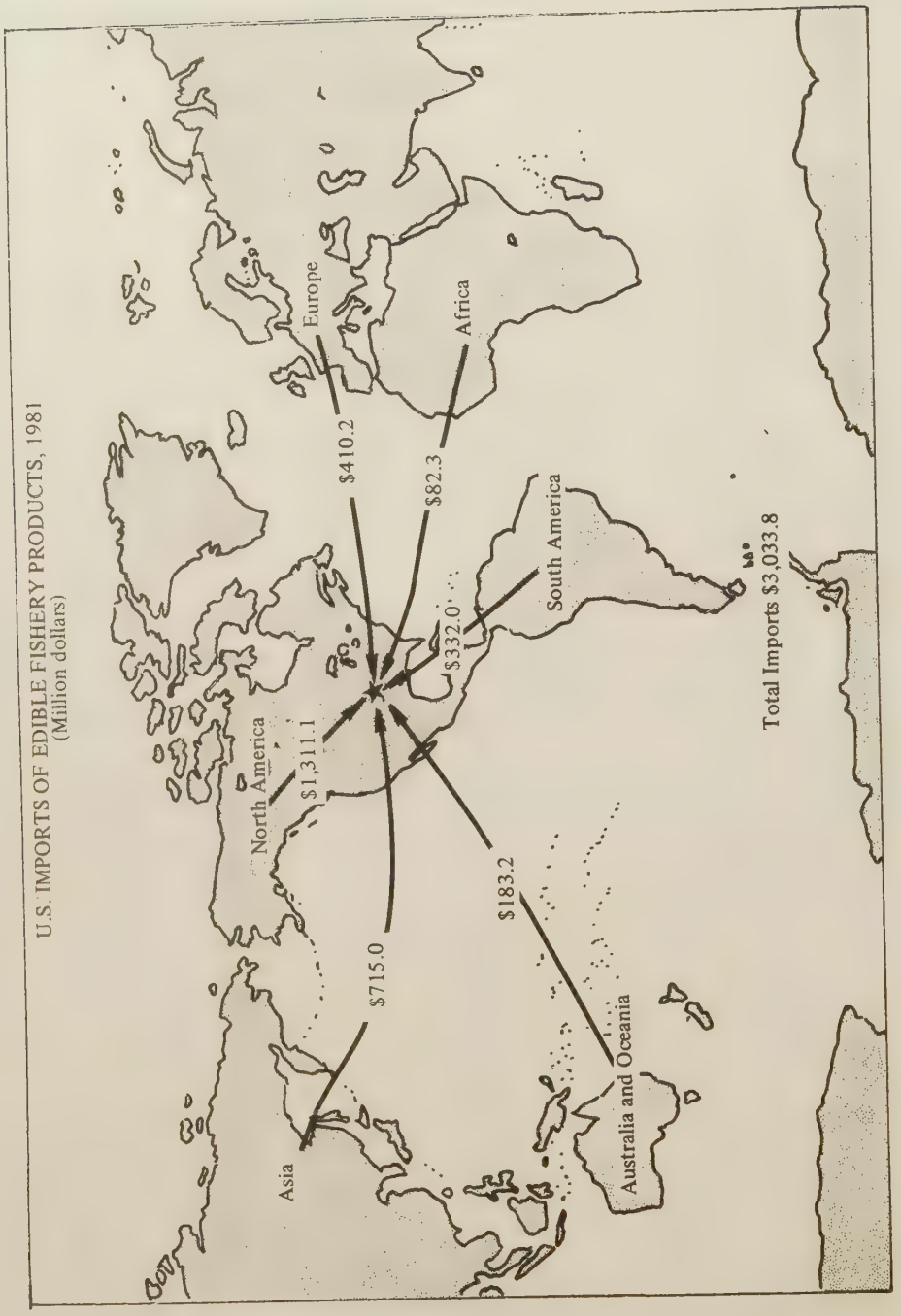
| Item | January 1 | March 31 | June 30 | September 30 | December 31 |
|---|---|---|---|---|---|
| | Thousand pounds | | | | |
| Blocks: | | | | | |
| Cod | 11,128 | 17,279 | 19,029 | 17,954 | 17,064 |
| Flounder | 3,015 | 1,857 | 3,711 | 4,433 | 2,340 |
| Greenland turbot | 1,276 | 307 | 323 | 317 | 324 |
| Haddock | 9,354 | 4,724 | 6,322 | 4,253 | 2,668 |
| Ocean perch | 1,988 | 420 | 551 | 407 | 357 |
| Pollock (Alaska and other) | 4,808 | 2,074 | 3,360 | 4,757 | 5,778 |
| Whiting | 5,861 | 5,078 | 5,953 | 5,396 | 6,694 |
| Minced (grated) all species | 4,369 | 3,524 | 4,957 | 5,205 | 5,509 |
| Unclassified | 4,941 | 2,728 | 2,659 | 2,867 | 3,035 |
| Total blocks | 46,740 | 37,991 | 46,865 | 45,589 | 43,769 |
| Fillets and steaks: | | | | | |
| Cod | 19,652 | 19,027 | 18,514 | 20,344 | 16,884 |
| Flounder | 12,495 | 11,204 | 18,582 | 25 953 | 17,287 |
| Greenland turbot | 3,383 | 2,017 | 1,925 | 4,587 | 3,316 |
| Haddock | 7,678 | 5,291 | 5,637 | 6,493 | 5,590 |
| Halibut | 2,029 | 1,175 | 2,707 | 6,001 | 4,298 |
| Ocean perch | 8,704 | 3,801 | 4,131 | 12,763 | 13,827 |
| Whiting | 2,588 | 2,229 | 2,026 | 1,839 | 2,221 |
| Unclassified | 31,488 | 24,250 | 20,763 | 21,559 | 20,059 |
| Total fillets and steaks | 88,017 | 68,994 | 74,285 | 99,539 | 83,482 |
| Fish sticks and portions (cooked and uncooked, all species) | 31,973 | 27,958 | 37,639 | 31,902 | 34,500 |
| Round, dressed, etc: | | | | | |
| Catfish | 3,560 | 2,791 | 2,855 | 2,819 | 2,835 |
| Halibut | 5,742 | 3,658 | 8,114 | 7,540 | 3,908 |
| Rainbow trout | 1,867 | 1,772 | 3,089 | 1,106 | 868 |
| Salmon | 26,526 | 12,565 | 7,762 | 38,129 | 22,314 |
| Whiting | 900 | 1,171 | 1,503 | 1,800 | 1,841 |
| Unclassified fish | 25,273 | 28,775 | 23,436 | 26,459 | 25,998 |
| Crabs: | | | | | |
| King | 37,768 | 25,499 | 14,285 | 9,327 | 18,165 |
| Snow | 6,448 | 5,662 | 16,811 | 10,977 | 8,385 |
| Unclassified | 4,855 | 4,033 | 4,847 | 5,231 | 4,548 |
| Lobsters (spiny and other) | 7,571 | 6,656 | 6,164 | 6,894 | 6,419 |
| Shrimp: | | | | | |
| Raw, headless | 31,612 | 27,400 | 20,023 | 26,969 | 27,740 |
| Breaded | 6,360 | 5,231 | 5,141 | 4,465 | 5,577 |
| Peeled | 19,111 | 14,713 | 14,544 | 15,878 | 15,265 |
| Unclassified | 20,595 | 13,592 | 7,850 | 10,914 | 16,289 |
| Total shrimp | 77,678 | 60,936 | 47,558 | 58,226 | 64,871 |
| Other shellfish | 20,001 | 20,323 | 23,462 | 24,439 | 23,845 |
| Bait and animal food | 8,345 | 10,340 | 12,595 | 7,716 | 4,290 |
| Total fish and shellfish | 393,264 | 319,124 | 331,270 | 377,693 | 350,038 |

Note:--Holdings of frozen fishery products include domestic and imported frozen fish and shellfish.

Source:--Final figures are published in Frozen Fishery Products, Annual Summary, 1981, Current Fishery Statistics No. 8206.

# FOREIGN TRADE

## U.S. IMPORTS



## U.S. IMPORTS

EDIBLE AND NONEDIBLE FISHERY PRODUCTS IMPORTS, 1972-81

| Year | Edible | | Nonedible | Total |
|---|---|---|---|---|
| | Thousand pounds | Thousand dollars | Thousand dollars | Thousand dollars |
| 1972 | 2,341,138 | 1,233,292 | 261,119 | 1,494,411 |
| 1973 | *2,416,193 | 1,398,484 | 184,649 | 1,583,133 |
| 1974 | 2,266,880 | 1,495,380 | 215,498 | 1,710,878 |
| 1975 | 1,913,089 | 1,367,180 | 269,919 | 1,637,099 |
| 1976 | 2,228,475 | 1,916,848 | 415,497 | 2,332,345 |
| 1977 | 2,177,010 | 2,078,492 | 543,699 | 2,622,191 |
| 1978 | 2,410,512 | 2,253,142 | 823,422 | 3,076,564 |
| 1979 | 2,369,373 | 2,668,396 | *1,142,656 | 3,811,052 |
| 1980 | 2,144,628 | 2,686,391 | 962,061 | 3,648,452 |
| 1981 | 2,272,011 | *3,033,780 | 1,139,559 | *4,173,339 |

Note:--Statistics on imports are the weights of the individual products as exported, i.e., fillets, steaks, whole, headed, etc. *Record.

Source:--U.S. Department of Commerce, Bureau of the Census.

FISHERY PRODUCTS IMPORTS: VALUE, DUTIES COLLECTED, AND AD VALOREM EQUIVALENT, 1972-81

| Year | Value | | Duties collected | | Average ad valorem equivalent | |
|---|---|---|---|---|---|---|
| | Fishery imports | All imports | Fishery imports | All imports | Fishery imports | All imports |
| | Thousand dollars | | | | Percent | |
| 1972 | 1,494,411 | 55,555,300 | 24,292 | 3,124,000 | 1.6 | 5.6 |
| 1973 | 1,583,133 | 68,655,100 | 25,835 | 3,459,000 | 1.6 | 5.0 |
| 1974 | 1,710,878 | 100,125,800 | 29,815 | 3,772,000 | 1.7 | 3.8 |
| 1975 | 1,637,099 | 96,515,102 | 26,675 | 3,780,000 | 1.6 | 3.9 |
| 1976 | 2,332,345 | 121,120,869 | 43,293 | 4,674,700 | 1.9 | 3.9 |
| 1977 | 2,622,879 | 147,075,300 | 58,252 | 5,484,800 | 2.2 | 3.7 |
| 1978 | 3,075,994 | 172,952,200 | 88,240 | 7,161,500 | 2.9 | 4.1 |
| 1979 | 3,808,791 | 205,922,662 | 116,617 | 7,202,174 | 3.1 | 3.5 |
| 1980 | 3,648,452 | 239,943,468 | 87,389 | 7,535,421 | 2.4 | 3.1 |
| 1981 | 4,173,339 | 259,012,000 | 99,053 | 8,893,200 | 2.4 | 3.4 |

Source:--U.S. Department of Commerce, Bureau of the Census.

# FOREIGN TRADE

## U.S. IMPORTS

FISHERY PRODUCTS IMPORTS, BY PRINCIPAL ITEMS, 1980 AND 1981

| Item | 1980 | | 1981 | |
|---|---|---|---|---|
| | Thousand pounds | Thousand dollars | Thousand pounds | Thousand dollars |
| Edible fishery products: | | | | |
| Fresh and frozen: | | | | |
| Fillets: | | | | |
| Flounders | 36,511 | 47,126 | 54,297 | 74,832 |
| Groundfish | 220,954 | 256,846 | 257,164 | 303,888 |
| Other | 111,696 | 111,280 | 102,702 | 119,385 |
| Total | 369,161 | 415,252 | 414,163 | 498,105 |
| Blocks and slabs | 336,117 | 288,914 | 344,111 | 301,279 |
| Halibut | 6,338 | 9,326 | 6,314 | 10,053 |
| Salmon | 5,533 | 13,887 | 6,490 | 15,933 |
| Tuna: | | | | |
| Albacore | 164,980 | 148,441 | 172,134 | 174,003 |
| Other | 554,020 | 275,488 | 546,649 | 299,254 |
| Loins and discs | 3,686 | 5,343 | 2,511 | 5,498 |
| Crabmeat | 3,302 | 10,410 | 7,100 | 22,912 |
| Scallops (meats) | 20,885 | 82,002 | 26,227 | 112,709 |
| Lobsters: | | | | |
| American (includes fresh-cooked meat) | 14,375 | 40,479 | 17,865 | 53,045 |
| Spiny | 36,157 | 230,152 | 37,970 | 255,654 |
| Shrimp | 215,083 | 711,200 | 218,377 | 714,977 |
| Other | 136,951 | 88,802 | 156,596 | 118,595 |
| Canned: | | | | |
| Herring, not in oil | 5,577 | 8,615 | 6,156 | 9,766 |
| Salmon | 167 | 454 | 70 | 184 |
| Sardines: | | | | |
| In oil | 18,218 | 24,226 | 18,239 | 25,134 |
| Not in oil | 32,960 | 19,834 | 37,034 | 26,061 |
| Tuna: | | | | |
| In oil | 446 | 569 | 268 | 576 |
| Not in oil | 63,107 | 96,685 | 70,583 | 109,783 |
| Bonito and yellowtail: | | | | |
| In oil | 531 | 311 | 581 | 472 |
| Not in oil | 273 | 313 | 305 | 374 |
| Abalone | 3,012 | 15,363 | 2,716 | 19,625 |
| Clams | 5,531 | 6,841 | 6,702 | 6,868 |
| Crabmeat | 5,002 | 12,503 | 5,019 | 13,187 |
| Lobsters: | | | | |
| American | 2,090 | 12,529 | 2,901 | 19,663 |
| Spiny | 88 | 314 | 217 | 770 |
| Oysters | 16,989 | 20,263 | 20,365 | 23,960 |
| Shrimp | 4,225 | 8,063 | 4,383 | 8,898 |
| Other | 53,054 | 70,089 | 59,880 | 93,364 |
| Cured: | | | | |
| Pickled or salted: | | | | |
| Cod, haddock, hake, etc. | 33,015 | 35,992 | 45,312 | 56,221 |
| Herring | 16,727 | 10,388 | 20,079 | 11,523 |
| Other | 7,806 | 13,139 | 7,412 | 13,697 |
| Other fish and shellfish | 9,222 | 10,204 | 7,282 | 11,637 |
| Total edible fishery products | 2,144,628 | 2,686,391 | 2,272,011 | 3,033,780 |
| Nonedible fishery products: | | | | |
| Scrap and meal | 99,074 | 15,530 | 118,868 | 20,473 |
| Fish oils | 25,932 | 7,253 | 21,908 | 6,828 |
| Other | - | 939,278 | - | 1,112,258 |
| Total nonedible fishery products | - | 962,061 | - | 1,139,559 |
| Grand total | - | 3,648,452 | - | 4,173,339 |

Note:--Data include imports into the United States and Puerto Rico and include landings of tuna by foreign vessels at American Samoa. Statistics on imports are the weights of the individual products as exported.

Source:--U.S. Department of Commerce, Bureau of the Census.

EDIBLE AND NONEDIBLE FISHERY PRODUCTS IMPORTS, 1981

| Continent and country | Edible | | Nonedible | Total |
|---|---|---|---|---|
| | Thousand pounds | Thousand dollars | Thousand dollars | Thousand dollars |
| North America: | | | | |
| Canada | 580,274 | 749,383 | 51,509 | 800,892 |
| Mexico | 83,528 | 322,742 | 13,219 | 335,961 |
| Panama | 56,058 | 85,962 | 3,308 | 89,270 |
| Honduras | 8,577 | 30,558 | 10 | 30,568 |
| El Salvador | 7,306 | 23,338 | 490 | 23,828 |
| Nicaragua | 5,358 | 18,373 | - | 18,373 |
| Other | 49,807 | 80,695 | 6,806 | 87,501 |
| Total | 790,908 | 1,311,051 | 75,342 | 1,386,393 |
| South America: | | | | |
| Brazil | 46,661 | 97,865 | 7,471 | 105,336 |
| Ecuador | 27,448 | 83,651 | 94 | 83,745 |
| Chile | 11,401 | 14,195 | 17,248 | 31,443 |
| Peru | 46,004 | 26,856 | 3,792 | 30,648 |
| French Guiana | 6,487 | 26,397 | - | 26,397 |
| Other | 80,800 | 83,077 | 20,858 | 103,935 |
| Total | 218,801 | 332,041 | 49,463 | 381,504 |
| Europe: | | | | |
| European Economic Community: | | | | |
| Italy | 841 | 986 | 355,887 | 356,873 |
| France | 44,843 | 27,536 | 62,379 | 89,915 |
| United Kingdom | 7,561 | 16,227 | 37,150 | 53,377 |
| Federal Republic of Germany | 2,134 | 1,679 | 49,175 | 50,854 |
| Denmark | 40,482 | 45,514 | 5,156 | 50,670 |
| Other | 5,042 | 11,419 | 13,209 | 24,628 |
| Total | 100,903 | 103,361 | 522,956 | 626,317 |
| Other: | | | | |
| Iceland | 142,240 | 175,506 | 324 | 175,830 |
| Norway | 53,701 | 66,572 | 4,228 | 70,800 |
| Switzerland | 1 | 4 | 64,053 | 64,057 |
| Spain | 43,229 | 35,030 | 14,573 | 49,603 |
| Other | 27,697 | 29,658 | 12,511 | 42,169 |
| Total | 266,868 | 306,770 | 95,689 | 402,459 |
| Asia: | | | | |
| Japan | 190,599 | 192,144 | 129,518 | 321,662 |
| Hong Kong | 12,455 | 17,512 | 110,834 | 128,346 |
| Taiwan | 70,780 | 90,470 | 19,405 | 109,875 |
| Republic of Korea | 95,007 | 82,368 | 9,291 | 91,659 |
| Republic of Philippines | 79,121 | 66,394 | 11,582 | 77,976 |
| Other | 239,631 | 266,125 | 107,052 | 373,177 |
| Total | 687,593 | 715,013 | 387,682 | 1,102,695 |
| Australia and Oceania: | | | | |
| Australia | 12,537 | 86,806 | 1,705 | 88,511 |
| New Zealand | 12,537 | 29,921 | 516 | 30,437 |
| British Pacific Islands | 43,281 | 28,598 | 2 | 28,600 |
| Papua, New Guinea | 41,548 | 23,004 | 10 | 23,014 |
| Other | 23,373 | 14,910 | 1,531 | 16,441 |
| Total | 133,276 | 183,239 | 3,764 | 187,003 |
| Africa: | | | | |
| Republic of South Africa | 28,786 | 47,363 | 2,225 | 49,588 |
| Ghana | 26,201 | 13,030 | 11 | 13,041 |
| Morocco | 6,190 | 4,597 | 1,559 | 6,156 |
| Nambia | 726 | 5,893 | - | 5,893 |
| Other | 11,759 | 11,422 | 868 | 12,290 |
| Total | 73,662 | 82,305 | 4,663 | 86,968 |
| Grand total | 2,272,011 | 3,033,780 | 1,139,559 | 4,173,339 |

Note:--Statistics on imports are the weights of the individual products as exported, i.e., fillets, steaks, whole, headed, etc.

Source:--Department of Commerce, Bureau of the Census.

# FOREIGN TRADE

## U.S. IMPORTS

REGULAR AND MINCED FISH BLOCKS AND SLABS IMPORTS, BY SPECIES AND TYPE, 1980 AND 1981

| Species and type | 1980 | | 1981 | |
|---|---|---|---|---|
| | Thousand pounds | Thousand dollars | Thousand pounds | Thousand dollars |
| Regular blocks and slabs: | | | | |
| Cod | 160,418 | 156,714 | 157,919 | 158,333 |
| Flatfish: | | | | |
| Turbot | 5,348 | 3,336 | 3,057 | 2,091 |
| Other | 8,048 | 9,295 | 9,306 | 10,064 |
| Haddock | 31,281 | 36,155 | 37,626 | 38,480 |
| Ocean Perch, Atlantic | 3,901 | 2,968 | 4,665 | 3,066 |
| Pollock | 62,665 | 38,954 | 68,954 | 49,525 |
| Whiting | 36,867 | 25,502 | 29,830 | 21,001 |
| Other | 6,563 | 5,358 | 6,825 | 5,513 |
| Total | 315,091 | 278,282 | 318,182 | 288,073 |
| Minced blocks and slabs: (1). | 21,026 | 10,632 | 25,929 | 13,206 |
| Grand total | 336,117 | 288,914 | 344,111 | 301,279 |

(1) Most of the shipments were from Canada, Iceland, and Argentina.

Source:--U.S. Department of Commerce, Bureau of the Census.

REGULAR AND MINCED FISH BLOCKS AND SLABS IMPORTS, BY COUNTRY OF ORIGIN, 1980 AND 1981

| Country | 1980 | | 1981 | |
|---|---|---|---|---|
| | Thousand pounds | Thousand dollars | Thousand pounds | Thousand dollars |
| Canada | 120,506 | 111,874 | 117,306 | 109,387 |
| Iceland | 59,220 | 55,295 | 48,709 | 45,287 |
| Republic of Korea | 42,333 | 26,618 | 40,956 | 30,819 |
| Denmark | 18,121 | 18,684 | 29,111 | 28,604 |
| Norway | 20,759 | 22,009 | 28,365 | 26,835 |
| Greenland | 13,248 | 11,001 | 15,220 | 12,183 |
| Poland | 15,503 | 10,878 | 15,964 | 12,144 |
| Uruguay | 10,608 | 7,774 | 13,839 | 9,151 |
| Other | 35,819 | 24,781 | 34,641 | 26,869 |
| Total | 336,117 | 288,914 | 344,111 | 301,279 |

Source:--U.S. Department of Commerce, Bureau of the Census.

GROUNDFISH FILLETS AND STEAKS IMPORTS, BY SPECIES, 1980 AND 1981 (1)

| Species | 1980 | | 1981 | |
|---|---|---|---|---|
| | Thousand pounds | Thousand dollars | Thousand pounds | Thousand dollars |
| Cod | 131,412 | 163,987 | 150,222 | 193,104 |
| Haddock (2) | 51,175 | 58,331 | 52,002 | 58,898 |
| Ocean Perch, Atlantic | 38,367 | 34,528 | 54,940 | 51,886 |
| Total | 220,954 | 256,846 | 257,164 | 303,888 |

(1) Does not include data on fish blocks and slabs.

(2) Includes some quantities of cusk, hake, and pollock fillets.

Source:--U.S. Department of Commerce, Bureau of the Census.

GROUNDFISH FILLETS AND STEAKS IMPORTS, UNDER-QUOTA AND OVER-QUOTA, 1972-81 (1)

| Year | Imports | | |
|---|---|---|---|
| | Under-quota (2) | Over-quota (3) | Total |
| | Thousand pounds | | |
| 1972 | 31,832 | 181,423 | 213,255 |
| 1973 | 34,125 | 185,971 | 220,096 |
| 1974 | 35,456 | 129,895 | 165,351 |
| 1975 | 35,695 | 164,661 | 200,356 |
| 1976 | 36,149 | 192,138 | 228,287 |
| 1977 | 35,437 | 181,986 | 217,423 |
| 1978 | 39,025 | 194,074 | 233,099 |
| 1979 | 42,744 | 210,213 | 252,957 |
| 1980 | 45,241 | 181,042 | 226,283 |
| 1981 | 47,264 | 205,337 | 252,601 |

(1) Includes Atlantic ocean perch.
(2) Dutiable at 1.875 cents per lb. Quota was filled in all years.
(3) Dutiable at 2.5 cents per lb.

Source:--Data on under-quota imports from U.S. Department of the Treasury, Bureau of Customs. Imports over-quota calculated from imports reported by U.S. Department of Commerce, Bureau of the Census.

CANNED TUNA NOT IN OIL, QUOTA AND IMPORTS, 1972-81

| Year | Quota (1) | Imports | |
|---|---|---|---|
| | | Under quota (2) | Over quota (3) |
| | Thousand pounds | | |
| 1972 | 78,532 | 54,474 | - |
| 1973 | 109,809 | 36,973 | - |
| 1974 | 112,176 | 52,172 | - |
| 1975 | 120,740 | 48,847 | - |
| 1976 | 98,125 | 56,409 | - |
| 1977 | 111,246 | 33,913 | - |
| 1978 | 101,407 | 50,031 | - |
| 1979 | 125,813 | 82,202 | - |
| 1980 | 109,074 | 109,074 | 5,064 |
| 1981 | 104,355 | 104,355 | 33,372 |

(1) Imports have been subject to tariff quotas since April 14, 1956, and are based on 20 percent of the previous year's domestic pack excluding the pack in American Samoa.
(2) Dutiable in 1972 to 1980, 6 percent.
(3) Dutiable in 1972 to 1980, 12.5 percent ad valorem.

Note:--Data in this table will not agree with tuna import data released by the U.S. Department of Commerce, Bureau of the Census. Any tuna entered for consumption or withdrawn from a warehouse for consumption during the calendar year is subject to this quota. Data include tuna imported from American Samoa which are counted towards the quota.

Source:--U.S. Department of the Treasury, Bureau of Customs.

SHRIMP IMPORTS, BY COUNTRY OF ORIGIN, 1980 AND 1981

| Country | 1980 | | 1981 | |
|---|---|---|---|---|
| | Thousand pounds | Thousand dollars | Thousand pounds | Thousand dollars |
| North America: | | | | |
| Mexico | 76,062 | 316,842 | 70,866 | 290,309 |
| Panama | 13,727 | 46,205 | 15,923 | 55,406 |
| El Salvador | 6,233 | 18,139 | 6,564 | 20,841 |
| Honduras | 4,637 | 15,228 | 6,180 | 18,506 |
| Guatemala | 3,608 | 12,143 | 4,546 | 14,539 |
| Nicaragua | 5,624 | 20,835 | 3,781 | 12,521 |
| Costa Rica | 2,459 | 6,092 | 3,499 | 8,916 |
| Canada | 2,356 | 5,463 | 2,434 | 4,413 |
| Trinidad and Tobago | 393 | 1,131 | 486 | 1,487 |
| Greenland | 716 | 1,223 | 152 | 463 |
| Turks and Caicos Islands | 96 | 172 | 166 | 347 |
| Other | 1,224 | 3,122 | 157 | 629 |
| Total | 117,135 | 446,595 | 114,754 | 428,377 |
| South America: | | | | |
| Ecuador | 20,195 | 68,081 | 24,735 | 80,303 |
| Brazil | 8,768 | 20,317 | 10,933 | 23,459 |
| French Guiana | 4,194 | 14,594 | 3,512 | 14,756 |
| Colombia | 3,282 | 13,294 | 2,759 | 11,833 |
| Guyana | 5,281 | 16,394 | 2,418 | 9,239 |
| Venezuela | 3,874 | 15,993 | 1,625 | 6,608 |
| Surinam | 935 | 4,038 | 1,402 | 5,919 |
| Peru | 1,475 | 3,999 | 1,920 | 5,716 |
| Chile | 54 | 181 | 21 | 72 |
| Argentina | 16 | 23 | 144 | 422 |
| Total | 48,074 | 156,914 | 49,469 | 158,327 |
| Europe: | | | | |
| European Economic Community: | | | | |
| United Kingdom | 1,651 | 4,049 | 992 | 2,852 |
| France | - | - | 306 | 1,232 |
| Greece (1) | - | - | 219 | 654 |
| Denmark | 1 | 2 | 97 | 287 |
| Netherlands | 274 | 600 | 119 | 252 |
| Other | 355 | 827 | 137 | 163 |
| Total | 2,281 | 5,478 | 1,870 | 5,440 |
| Other: | | | | |
| Norway | 1,598 | 6,288 | 1,223 | 4,080 |
| Spain | 547 | 2,277 | 263 | 1,828 |
| Iceland | 64 | 288 | 245 | 1,343 |
| USSR | - | - | 1,125 | 633 |
| German Democratic Republic | - | - | 62 | 180 |
| Other | 127 | 386 | 28 | 116 |
| Total | 2,336 | 9,239 | 2,946 | 8,180 |
| Asia: | | | | |
| India | 12,999 | 20,898 | 18,998 | 32,731 |
| China | 934 | 3,437 | 4,984 | 17,663 |
| Thailand | 8,841 | 16,586 | 6,469 | 14,278 |
| Taiwan | 5,427 | 9,754 | 5,519 | 10,940 |
| Pakistan | 3,358 | 5,264 | 4,526 | 9,029 |
| Hong Kong | 1,975 | 4,662 | 2,597 | 7,919 |
| Bangladesh | 930 | 2,847 | 1,981 | 5,893 |
| Burma | 616 | 2,268 | 918 | 3,363 |
| Malaysia | 2,010 | 3,433 | 1,403 | 2,865 |
| Kuwait | 706 | 2,921 | 684 | 2,355 |
| Indonesia | 4,579 | 8,840 | 778 | 1,695 |
| Sri Lanka (Ceylon) | 1,670 | 4,520 | 625 | 1,447 |
| Other | 2,013 | 4,216 | 1,886 | 4,372 |
| Total | 46,058 | 89,646 | 51,368 | 114,550 |
| Australia and Oceania | 1,530 | 6,692 | 1,216 | 5,684 |
| Africa | 1,894 | 4,699 | 1,137 | 3,317 |
| Grand total | 219,308 | 719,263 | 222,760 | 723,875 |

(1) Listed with other European Countries in 1980 and in the European Economic Community in 1981. Note:--Statistics on imports are the weights of the individual products as exported, i.e., raw, headless, peeled, etc. Source:--U.S. Department of Commerce, Bureau of the Census.

## U.S. IMPORTS

SHRIMP IMPORTS, BY TYPE OF PRODUCT, 1980 AND 1981

| Type of product | 1980 | | 1981 | |
|---|---|---|---|---|
| | Thousand pounds | Thousand dollars | Thousand pounds | Thousand dollars |
| Shell-on (heads off) | 138,750 | 519,217 | 140,952 | 520,254 |
| Peeled: | | | | |
| Canned | 4,225 | 8,063 | 4,383 | 8,898 |
| Not breaded: | | | | |
| Raw | 66,270 | 170,459 | 65,540 | 164,842 |
| Other | 9,891 | 21,129 | 8,890 | 21,363 |
| Breaded | 172 | 395 | 2,995 | 8,518 |
| Total | 219,308 | 719,263 | 222,760 | 723,875 |

Source:--U.S. Department of Commerce, Bureau of the Census.

FISH MEAL AND SCRAP IMPORTS, BY COUNTRY OF ORIGIN, 1980 AND 1981

| Country | 1980 | | 1981 | |
|---|---|---|---|---|
| | Short tons | Thousand dollars | Short tons | Thousand dollars |
| Chile | - | - | 26,763 | 9,650 |
| Canada | 24,203 | 7,324 | 24,266 | 8,035 |
| Panama | 18,054 | 5,810 | 8,345 | 2,757 |
| Peru | 6,622 | 2,163 | - | - |
| Miquelon | 389 | 127 | - | - |
| USSR | 231 | 87 | - | - |
| Norway | 25 | 17 | - | - |
| Other | 13 | 2 | 60 | 31 |
| Total | 49,537 | 15,530 | 59,434 | 20,473 |

Source:--U.S. Department of Commerce, Bureau of the Census.

# FOREIGN TRADE

## U.S. EXPORTS

DOMESTIC FISHERY PRODUCTS EXPORTS, BY PRINCIPAL ITEMS, 1980 AND 1981

| Item | 1980 | | 1981 | |
|---|---|---|---|---|
| | Thousand pounds | Thousand dollars | Thousand pounds | Thousand dollars |
| Edible fishery products: | | | | |
| Eels, live | (1) | (1) | 937 | 1,328 |
| Fresh and frozen: | | | | |
| Whole or eviscerated: | | | | |
| Eels | (1) | (1) | 980 | 1,390 |
| Herring | (1) | (1) | 80,351 | 39,766 |
| Mackerel | (1) | (1) | 590 | 300 |
| Mullet | (1) | (1) | 5,037 | 2,127 |
| Pollock | (1) | (1) | 1,572 | 1,877 |
| Sablefish | (1) | (1) | 1,033 | 710 |
| Salmon | 122,112 | 198,397 | 200,557 | 368,037 |
| Unclassified | 143,672 | 91,703 | 67,247 | 54,428 |
| Fillets and steaks: | | | | |
| Salmon | 3,353 | 8,674 | 3,573 | 6,289 |
| Herring | (1) | (1) | 19,865 | 11,544 |
| Unclassified | 46,657 | 41,866 | 36,079 | 35,886 |
| Fish sticks and portions | 975 | 1,334 | 2,483 | 3,110 |
| Shrimp | 15,913 | 48,928 | 17,608 | 53,730 |
| King crab | 28,871 | 76,409 | 15,831 | 54,772 |
| Snow crab | 33,742 | 49,825 | 31,998 | 55,215 |
| Squid | (1) | (1) | 11,238 | 7,256 |
| Unclassified fish and shellfish | 34,095 | 54,676 | 18,827 | 46,593 |
| Canned fish and shellfish: | | | | |
| Mackerel | 10,362 | 13,764 | 16,833 | 20,104 |
| Salmon | 74,006 | 149,971 | 63,494 | 128,616 |
| Sardines | 1,839 | 1,371 | 1,731 | 1,700 |
| Shrimp | 5,832 | 17,207 | 4,545 | 13,954 |
| King crab | 373 | 2,179 | 132 | 569 |
| Squid | 8,473 | 2,327 | 10,827 | 4,120 |
| Unclassified | 2,585 | 6,336 | 2,970 | 6,569 |
| Cured | 14,101 | 18,907 | 14,725 | 21,443 |
| Roe: | | | | |
| Herring | (1) | (1) | 8,640 | 20,012 |
| Pollock | (1) | (1) | 76 | 93 |
| Salmon | (1) | (1) | 19,568 | 94,184 |
| Sea urchin | (1) | (1) | 167 | 926 |
| Unclassified | 26,556 | 120,032 | 3,146 | 9,463 |
| Other | 379 | 457 | 6,609 | 6,654 |
| Total edible fishery products | 573,896 | 904,363 | 669,269 | 1,072,765 |
| Nonedible fishery products: | | | | |
| Fish meal | 170,562 | 29,137 | 94,054 | 19,056 |
| Fish oils | 284,009 | 52,395 | 238,308 | 42,572 |
| Seal furs | (2) | 1,897 | (2) | 1,148 |
| Other | - | 18,362 | - | 21,454 |
| Total nonedible fishery products | - | 101,791 | - | 84,230 |
| Grand total | - | 1,006,154 | - | 1,156,995 |

(1) Data not reported separately prior to 1981.

(2) Number of seal furs was 21,604 in 1980 and 14,834 in 1981.

Note:--Statistics on exports are the weights of the individual products for export, i.e., fillets, steaks, whole, headed, etc.

Source:--U.S. Department of Commerce, Bureau of the Census.

DOMESTIC FISHERY PRODUCTS EXPORTS, BY CONTINENT AND COUNTRY OF DESTINATION, 1981

| Continent and Country | Edible | | Nonedible | Total |
|---|---|---|---|---|
| | Thousand pounds | Thousand dollars | Thousand dollars | Thousand dollars |
| North America: | | | | |
| Canada | 111,201 | 146,885 | 3,692 | 150,577 |
| Mexico | 11,635 | 24,060 | 1,746 | 25,806 |
| Netherlands Antilles | 1,506 | 2,910 | 55 | 2,965 |
| Bermuda | 1,112 | 2,666 | 18 | 2,684 |
| Dominican Republic | 820 | 914 | 675 | 1,589 |
| Bahamas | 935 | 1,381 | 134 | 1,515 |
| Trinidad and Tobago | 763 | 1,110 | 19 | 1,129 |
| Panama | 507 | 873 | 11 | 884 |
| British Virgin Islands | 815 | 800 | 4 | 804 |
| French West Indies | 731 | 711 | 17 | 728 |
| Guatemala | 385 | 449 | 43 | 492 |
| Honduras | 404 | 294 | 65 | 359 |
| Cayman Islands | 170 | 313 | 12 | 325 |
| Barbados | 222 | 239 | 1 | 240 |
| Jamaica | 150 | 179 | 11 | 190 |
| Haiti | 59 | 91 | - | 91 |
| Belize | 51 | 84 | - | 84 |
| Costa Rica | 1 | 3 | 37 | 40 |
| Nicaragua | 8 | 7 | - | 7 |
| Turks and Caicos Islands | 7 | 7 | - | 7 |
| El Salvador | - | - | 5 | 5 |
| Total | 131,482 | 183,976 | 6,545 | 190,521 |
| South America: | | | | |
| Venezuela | 21,583 | 14,472 | 1,607 | 16,079 |
| Peru | 40 | 42 | 2,061 | 2,103 |
| Colombia | 227 | 198 | 36 | 234 |
| Surinam | 173 | 189 | 11 | 200 |
| Argentina | 3 | 18 | 105 | 123 |
| Chile | 20 | 66 | 31 | 97 |
| Brazil | 1 | 9 | 45 | 54 |
| Ecuador | - | - | 47 | 47 |
| Bolivia | 16 | 32 | - | 32 |
| Uruguay | 10 | 11 | - | 11 |
| Paraguay | 1 | 5 | - | 5 |
| Guyana | - | - | 1 | 1 |
| Total | 22,074 | 15,042 | 3,944 | 18,986 |
| Europe: | | | | |
| European Economic Community: | | | | |
| United Kingdom | 47,699 | 88,651 | 17,650 | 106,301 |
| France | 32,185 | 58,952 | 337 | 59,289 |
| Netherlands | 9,220 | 19,247 | 15,449 | 34,696 |
| Federal Republic of Germany | 14,890 | 12,736 | 10,260 | 22,996 |
| Belgium and Luxembourg | 8,509 | 16,380 | 3,643 | 20,023 |
| Italy | 2,339 | 4,348 | 1,071 | 5,419 |
| Greece | 8,178 | 4,418 | 52 | 4,470 |
| Denmark | 1,919 | 3,351 | 10 | 3,361 |
| Ireland | 727 | 1,375 | 3 | 1,378 |
| Total | 125,666 | 209,458 | 48,475 | 257,933 |
| Other: | | | | |
| Sweden | 6,301 | 11,524 | 2,721 | 14,245 |
| Poland | 9,162 | 8,726 | - | 8,726 |
| Norway | 5,081 | 3,498 | 447 | 3,945 |
| Portugal | 4,394 | 3,056 | - | 3,056 |
| Spain (1) | 1,115 | 1,436 | 1,479 | 2,915 |
| Switzerland | 1,019 | 2,359 | 285 | 2,644 |

See footnotes at end of table.

(Continued)

DOMESTIC FISHERY PRODUCTS EXPORTS, BY CONTINENT AND COUNTRY OF DESTINATION, 1981 - Continued

| Continent and Country | Edible | | Nonedible | Total |
|---|---|---|---|---|
| | Thousand pounds | Thousand dollars | | |
| Other - continued: | | | | |
| Finland | 313 | 337 | - | 337 |
| Bulgaria | - | - | 143 | 143 |
| Austria | 6 | 21 | 2 | 23 |
| Union of Soviet Socialist Republics | (2) | 1 | 9 | 10 |
| Cyprus | 2 | 7 | - | 7 |
| Turkey | - | - | 3 | 3 |
| Iceland | 1 | 2 | - | 2 |
| Malta and Gozo | 1 | 1 | - | 1 |
| Total | 27,395 | 30,968 | 5,089 | 36,057 |
| Asia: | | | | |
| Japan | 293,582 | 552,313 | 7,655 | 559,968 |
| Republic of Korea | 27,152 | 26,084 | 769 | 26,853 |
| Taiwan | 2,849 | 8,376 | 1,071 | 9,447 |
| Hong Kong | 1,581 | 3,169 | 542 | 3,711 |
| Saudi Arabia | 2,484 | 3,388 | 89 | 3,477 |
| Singapore | 885 | 2,296 | 55 | 2,351 |
| Philippines | 4,190 | 1,685 | 531 | 2,216 |
| Israel | 780 | 727 | 11 | 738 |
| Thailand | 414 | 617 | 53 | 670 |
| Kuwait | 394 | 338 | 7 | 345 |
| Lebanon | 76 | 269 | - | 269 |
| Indonesia | 78 | 184 | 3 | 187 |
| United Arab Emirates | 73 | 113 | - | 113 |
| Malaysia | 37 | 106 | - | 106 |
| Qatar | 22 | 43 | - | 43 |
| Bahrain | 13 | 27 | 15 | 42 |
| Jordan | 37 | 36 | 1 | 37 |
| Iraq | 113 | 30 | - | 30 |
| Oman | 6 | 11 | - | 11 |
| China | - | - | 10 | 10 |
| Brunei | 1 | 2 | - | 2 |
| India | 1 | 1 | - | 1 |
| Total | 334,768 | 599,815 | 10,812 | 610,627 |
| Australia and Oceania: | | | | |
| Australia | 11,379 | 22,919 | 82 | 23,001 |
| New Zealand | 358 | 781 | 7 | 788 |
| French Pacific Islands | 225 | 541 | 1 | 542 |
| Territory of the Pacific Islands | 172 | 172 | 6 | 178 |
| Other Pacific Islands | 22 | 31 | 1 | 32 |
| British Pacific Islands | 49 | 27 | 1 | 28 |
| Western Samoa | 2 | 4 | - | 4 |
| Papua, New Guinea | 2 | 3 | - | 3 |
| Total | 12,209 | 24,478 | 98 | 24,576 |

See footnotes at end of table.

(Continued)

DOMESTIC FISHERY PRODUCTS EXPORTS, BY CONTINENT AND COUNTRY OF DESTINATION, 1981 - Continued

| Continent and Country | Edible | | Nonedible | Total |
|---|---|---|---|---|
| | Thousand pounds | - - - - - - - - | Thousand dollars | - - - - - - - - |
| Africa: | | | | |
| Egypt | 4,343 | 2,043 | 8,802 | 10,845 |
| Republic of South Africa | 2,453 | 3,668 | 42 | 3,710 |
| Nigeria | 8,297 | 2,364 | 304 | 2,668 |
| Libya | 121 | 327 | - | 327 |
| Canary Islands (3) | 153 | 196 | - | 196 |
| Ghana | 32 | 64 | 113 | 177 |
| Guinea | 177 | 127 | 1 | 128 |
| Togo | 22 | 125 | - | 125 |
| Western Africa | 52 | 48 | - | 48 |
| Zaire | 6 | 27 | - | 27 |
| Liberia | 11 | 23 | - | 23 |
| Sudan | 8 | 16 | 3 | 19 |
| Mauritius | - | - | 2 | 2 |
| Total | 15,675 | 9,028 | 9,267 | 18,295 |
| Grand total | 669,269 | 1,072,765 | 84,230 | 1,156,995 |

(1) Does not include Canary Islands, a province of Spain.
(2) Less than 500 lb.
(3) A province of Spain.

Note:--Statistics on exports are the weights of the individual products for export, i.e., fillets, steaks, whole, headed, etc.

Source:--U.S. Department of Commerce, Bureau of the Census.

DOMESTIC FISHERY PRODUCTS EXPORTS, 1972-81

| Year | Edible | | Nonedible | Total |
|---|---|---|---|---|
| | Thousand pounds | - - - - - - - - | Thousand dollars | - - - - - - - - |
| 1972 | 171,642 | 134,188 | 23,720 | 157,908 |
| 1973 | 238,942 | 241,866 | 57,302 | 299,168 |
| 1974 | 178,011 | 194,966 | 67,166 | 262,132 |
| 1975 | 218,152 | 267,360 | 37,369 | 304,729 |
| 1976 | 240,866 | 329,810 | 54,880 | 384,690 |
| 1977 | 331,059 | 473,375 | 47,121 | 520,496 |
| 1978 | 448,312 | 831,654 | 73,880 | 905,534 |
| 1979 | 553,579 | 1,022,335 | 62,162 | 1,084,497 |
| 1980 | 573,896 | 904,363 | *101,791 | 1,006,154 |
| 1981 | *669,269 | *1,072,765 | 84,230 | *1,156,995 |

Note--Statistics on exports are the weights of the individual products for export, i.e., fillets, steaks, whole, headed, etc.

*Record. Source:--U.S. Department of Commerce, Bureau of the Census.

# FOREIGN TRADE

## U.S. EXPORTS

DOMESTIC AND FOREIGN SHRIMP PRODUCTS EXPORTS, 1980 AND 1981

| Item | 1980 | | 1981 | |
|---|---|---|---|---|
| | Thousand pounds | Thousand dollars | Thousand pounds | Thousand dollars |
| Fresh and frozen: | | | | |
| Domestic | 15,913 | 48,928 | 17,608 | 53,730 |
| Foreign | 9,566 | 33,997 | 13,687 | 44,415 |
| Total | 25,479 | 82,925 | 31,295 | 98,145 |
| Canned: | | | | |
| Domestic | 5,832 | 17,207 | 4,545 | 13,954 |
| Foreign | 371 | 679 | 31 | 81 |
| Total | 6,203 | 17,886 | 4,576 | 14,035 |
| Total: | | | | |
| Domestic | 21,745 | 66,135 | 22,153 | 67,684 |
| Foreign | 9,937 | 34,676 | 13,718 | 44,496 |
| Total | 31,682 | 100,811 | 35,871 | 112,180 |

Source:--U.S. Department of Commerce, Bureau of the Census.

DOMESTIC FRESH AND FROZEN SHRIMP EXPORTS, BY COUNTRY OF DESTINATION, 1980 AND 1981

| Country | 1980 | | 1981 | |
|---|---|---|---|---|
| | Thousand pounds | Thousand dollars | Thousand pounds | Thousand dollars |
| Canada | 8,016 | 23,403 | 7,577 | 25,594 |
| Mexico | 3,723 | 10,416 | 7,291 | 18,758 |
| Japan | 2,841 | 11,670 | 1,524 | 5,522 |
| Saudi Arabia | 106 | 450 | 98 | 446 |
| Netherlands Antilles | 32 | 135 | 84 | 315 |
| Sweden | 32 | 135 | 80 | 311 |
| Bermuda | 89 | 378 | 66 | 301 |
| Denmark | - | - | 94 | 301 |
| Switzerland | 41 | 125 | 64 | 289 |
| Federal Republic of Germany | 11 | 84 | 75 | 287 |
| Other | 1,022 | 2,132 | 655 | 1,606 |
| Total | 15,913 | 48,928 | 17,608 | 53,730 |

Source:--U.S. Department of Commerce, Bureau of the Census.

DOMESTIC CANNED SHRIMP EXPORTS, BY COUNTRY OF DESTINATION, 1980 AND 1981

| Country | 1980 | | 1981 | |
|---|---|---|---|---|
| | Thousand pounds | Thousand dollars | Thousand pounds | Thousand dollars |
| Canada | 4,282 | 12,771 | 3,644 | 10,711 |
| Sweden | 117 | 328 | 232 | 1,307 |
| Switzerland | 288 | 942 | 206 | 614 |
| Japan | 51 | 116 | 95 | 290 |
| United Kingdom | 394 | 1,078 | 135 | 288 |
| Australia | 91 | 224 | 53 | 181 |
| New Zealand | 105 | 358 | 50 | 173 |
| Republic of South Africa | 71 | 330 | 20 | 71 |
| Netherlands | 37 | 52 | 34 | 36 |
| Other | 396 | 1,008 | 76 | 283 |
| Total | 5,832 | 17,207 | 4,545 | 13,954 |

Source:--U.S. Department of Commerce, Bureau of the Census.

## U.S. EXPORTS

DOMESTIC FRESH AND FROZEN SALMON EXPORTS, WHOLE OR EVISCERATED, BY COUNTRY OF DESTINATION, 1980 AND 1981

| Country | 1980 | | 1981 | |
|---|---|---|---|---|
| | Thousand pounds | Thousand dollars | Thousand pounds | Thousand dollars |
| Japan | 67,332 | 105,576 | 130,890 | 252,629 |
| France | 13,931 | 30,533 | 17,609 | 39,689 |
| Canada | 19,255 | 20,288 | 24,223 | 25,390 |
| United Kingdom | 5,740 | 9,898 | 8,488 | 13,886 |
| Republic of Korea | 1,717 | 1,649 | 5,366 | 9,619 |
| Belgium and Luxembourg | 2,439 | 5,632 | 2,526 | 5,797 |
| Sweden | 4,913 | 7,793 | 3,772 | 5,294 |
| Netherlands | 1,493 | 3,744 | 2,153 | 5,027 |
| Denmark | 1,228 | 2,307 | 1,635 | 2,788 |
| Federal Republic of Germany | 2,024 | 5,267 | 1,044 | 2,389 |
| Italy | 927 | 3,369 | 576 | 1,933 |
| Republic of South Africa | 348 | 770 | 607 | 833 |
| Other | 765 | 1,571 | 1,668 | 2,763 |
| Total | 122,112 | 198,397 | 200,557 | 368,037 |

Source:--U.S. Department of Commerce, Bureau of the Census.

DOMESTIC FRESH AND FROZEN SALMON EXPORTS, FILLETS, STEAKS OR PORTIONS, BY COUNTRY OF DESTINATION, 1980 AND 1981

| Country | 1980 | | 1981 | |
|---|---|---|---|---|
| | Thousand pounds | Thousand dollars | Thousand pounds | Thousand dollars |
| France | 709 | 2,443 | 1,080 | 2,012 |
| Canada | 896 | 1,442 | 557 | 883 |
| Sweden | 249 | 476 | 290 | 757 |
| Japan | 294 | 937 | 442 | 700 |
| United Kingdom | 187 | 427 | 486 | 560 |
| Federal Republic of Germany | 261 | 925 | 139 | 331 |
| Republic of South Africa | 170 | 167 | 255 | 276 |
| Belgium and Luxembourg | 152 | 303 | 61 | 144 |
| Lebanon | - | - | 36 | 124 |
| Other | 435 | 1,554 | 227 | 502 |
| Total | 3,353 | 8,674 | 3,573 | 6,289 |

Source:--U.S. Department of Commerce, Bureau of the Census.

DOMESTIC CANNED SALMON EXPORTS, BY COUNTRY OF DESTINATION, 1980 AND 1981

| Country | 1980 | | 1981 | |
|---|---|---|---|---|
| | Thousand pounds | Thousand dollars | Thousand pounds | Thousand dollars |
| United Kingdom | 33,012 | 72,588 | 30,084 | 64,192 |
| Canada | 14,860 | 28,688 | 11,325 | 21,838 |
| Australia | 9,089 | 17,723 | 9,041 | 18,220 |
| Netherlands | 7,354 | 14,183 | 4,865 | 9,345 |
| Belgium and Luxembourg | 4,465 | 7,448 | 2,972 | 5,043 |
| Japan | 527 | 1,163 | 1,241 | 2,673 |
| Republic of South Africa | 792 | 1,456 | 833 | 1,693 |
| Ireland | 517 | 908 | 702 | 1,331 |
| Other | 3,390 | 5,814 | 2,431 | 4,281 |
| Total | 74,006 | 149,971 | 63,494 | 128,616 |

Source:--U.S. Department of Commerce, Bureau of the Census.

# FOREIGN TRADE

## U.S. EXPORTS

DOMESTIC FROZEN KING CRAB EXPORTS, BY COUNTRY OF DESTINATION, 1980 AND 1981

| Country | 1980 | | 1981 | |
|---|---|---|---|---|
| | Thousand pounds | Thousand dollars | Thousand pounds | Thousand dollars |
| Japan | 23,866 | 58,098 | 11,352 | 36,985 |
| Canada | 3,280 | 9,535 | 2,935 | 10,039 |
| Netherlands | 488 | 3,013 | 305 | 2,095 |
| Belgium and Luxembourg | 270 | 1,717 | 234 | 1,447 |
| Australia | 104 | 587 | 149 | 788 |
| France | 57 | 375 | 90 | 660 |
| United Kingdom | 74 | 298 | 105 | 440 |
| Mexico | 187 | 360 | 200 | 375 |
| Federal Republic of Germany | 76 | 328 | 70 | 309 |
| Norway | 82 | 353 | 54 | 233 |
| Sweden | 60 | 332 | 54 | 198 |
| Other | 327 | 1,413 | 283 | 1,203 |
| Total | 28,871 | 76,409 | 15,831 | 54,772 |

Source:--U.S. Department of Commerce, Bureau of the Census.

DOMESTIC FROZEN SNOW CRAB EXPORTS, BY COUNTRY OF DESTINATION, 1980 AND 1981

| Country | 1980 | | 1981 | |
|---|---|---|---|---|
| | Thousand pounds | Thousand dollars | Thousand pounds | Thousand dollars |
| Japan | 33,156 | 47,540 | 31,480 | 53,633 |
| Australia | 93 | 431 | 101 | 488 |
| Belgium and Luxembourg | 124 | 626 | 60 | 321 |
| Canada | 104 | 217 | 128 | 238 |
| France | 74 | 381 | 20 | 112 |
| Republic of Korea | - | - | 106 | 109 |
| Hong Kong | 7 | 36 | 24 | 75 |
| Other | 184 | 594 | 79 | 239 |
| Total | 33,742 | 49,825 | 31,998 | 55,215 |

Source:--U.S. Department of Commerce, Bureau of the Census.

DOMESTIC CANNED SQUID EXPORTS, BY COUNTRY OF DESTINATION, 1980 AND 1981

| Country | 1980 | | 1981 | |
|---|---|---|---|---|
| | Thousand pounds | Thousand dollars | Thousand pounds | Thousand dollars |
| Greece | 7,125 | 1,812 | 6,320 | 2,539 |
| Philippines | 423 | 133 | 2,421 | 894 |
| Saudi Arabia | 70 | 27 | 334 | 119 |
| Canada | 20 | 7 | 329 | 114 |
| Australia | 18 | 5 | 207 | 87 |
| France | 99 | 77 | 255 | 85 |
| United Kingdom | - | - | 153 | 62 |
| Other | 718 | 266 | 808 | 220 |
| Total | 8,473 | 2,327 | 10,827 | 4,120 |

Source:--U.S. Department of Commerce, Bureau of the Census.

## U.S. EXPORTS

DOMESTIC FISH AND MARINE ANIMAL OILS EXPORTS,
BY COUNTRY OF DESTINATION, 1980 AND 1981

| Country | 1980 | | 1981 | |
|---|---|---|---|---|
| | Thousand pounds | Thousand dollars | Thousand pounds | Thousand dollars |
| United Kingdom | 83,678 | 14,952 | 96,790 | 16,856 |
| Netherlands | 86,051 | 16,314 | 77,787 | 13,023 |
| Belgium and Luxembourg | 24,411 | 4,291 | 17,714 | 3,151 |
| Sweden | 9,619 | 1,739 | 15,734 | 2,679 |
| Peru | 27,010 | 5,242 | 10,792 | 2,058 |
| Federal Republic of Germany | 36,890 | 6,553 | 12,026 | 1,782 |
| Venezuela | 9 | 5 | 1,098 | 1,263 |
| Norway | 7 | 2 | 2,542 | 446 |
| Spain | 7,925 | 1,277 | 2,216 | 399 |
| Other | 8,409 | 2,020 | 1,609 | 915 |
| Total | 284,009 | 52,395 | 238,308 | 42,572 |

Source:--U.S. Department of Commerce, Bureau of the Census.

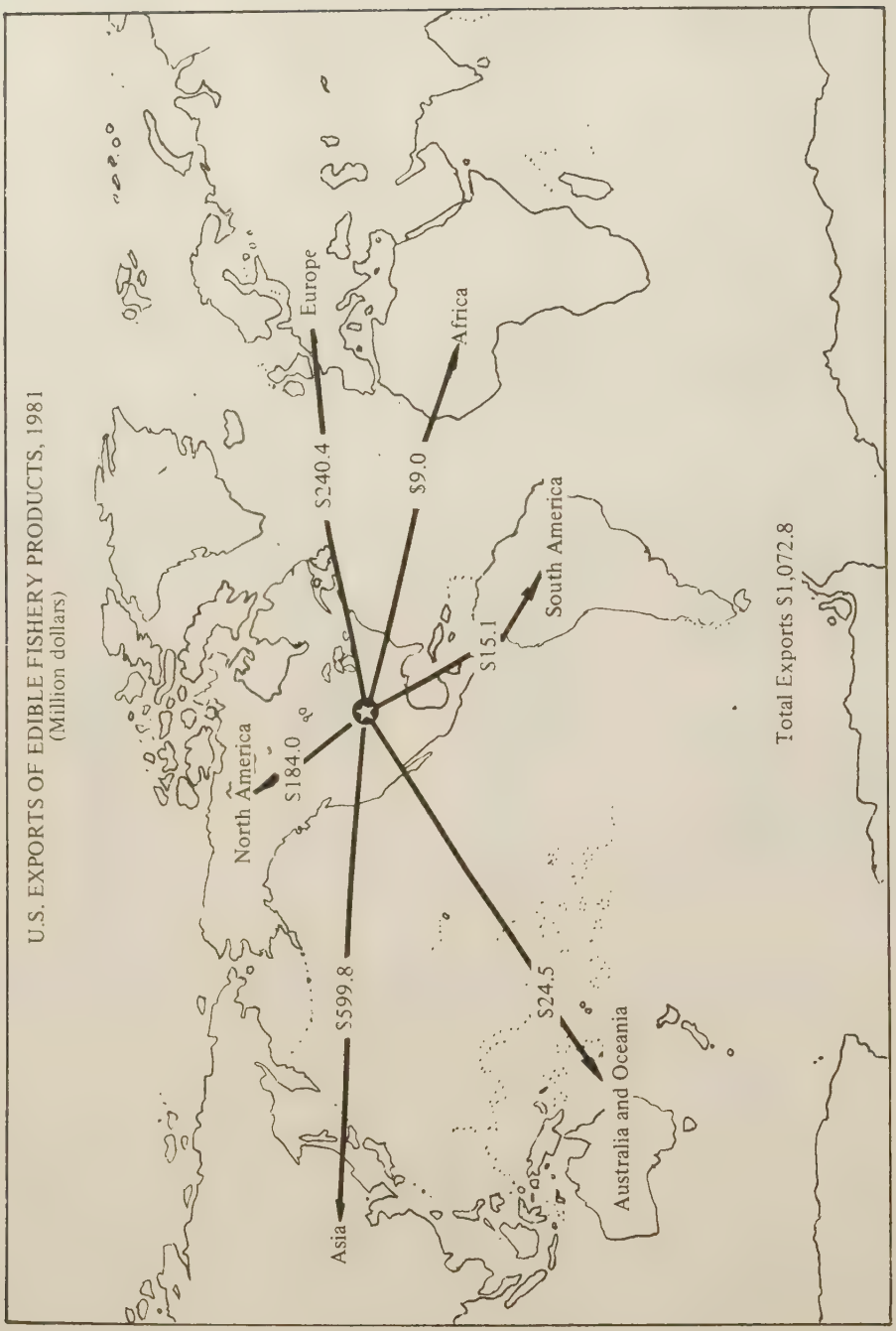
DOMESTIC FISH MEAL EXPORTS, BY COUNTRY OF DESTINATION, 1980 AND 1981

| Country | 1980 | | 1981 | |
|---|---|---|---|---|
| | Short Tons | Thousand dollars | Short Tons | Thousand dollars |
| Egypt | 9,878 | 3,875 | 18,659 | 8,802 |
| Federal Republic of Germany | 49,002 | 16,763 | 18,466 | 7,578 |
| Taiwan | 4,046 | 1,476 | 2,198 | 563 |
| Dominican Republic | 1,656 | 532 | 1,604 | 554 |
| Philippines | 6,091 | 2,069 | 1,428 | 521 |
| Belgium and Luxembourg | 700 | 238 | 775 | 302 |
| Canada | 1,011 | 146 | 1,783 | 275 |
| Mexico | 1,154 | 136 | 1,224 | 139 |
| Nigeria | 196 | 22 | 220 | 132 |
| Ghana | - | - | 250 | 113 |
| Other | 11,547 | 3,880 | 420 | 77 |
| Total | 85,281 | 29,137 | 47,027 | 19,056 |

Source:--U.S. Department Commerce, Bureau of the Census.

# FOREIGN TRADE

## U.S. EXPORTS



U.S. SUPPLY OF EDIBLE AND INDUSTRIAL COMMERCIAL FISHERY PRODUCTS, 1972-81
(Round-weight)

| Year | Domestic commercial landings | | Imports (1) | | Total |
|---|---|---|---|---|---|
| | Million pounds | Percent | Million pounds | Percent | Million pounds |
| 1972 | 4,806 | 34.7 | 9,043 | 65.3 | 13,849 |
| 1973 | 4,858 | 46.8 | 5,520 | 53.2 | 10,378 |
| 1974 | 4,967 | 50.3 | 4,908 | 49.7 | 9,875 |
| 1975 | 4,877 | 48.0 | 5,287 | 52.0 | 10,164 |
| 1976 | 5,388 | 46.5 | 6,205 | 53.5 | 11,593 |
| 1977 (2) | 5,198 | 49.1 | 5,381 | 50.9 | 10,579 |
| 1978 (2) | 6,028 | 52.4 | 5,481 | 47.6 | 11,509 |
| 1979 (2) | 6,267 | 53.0 | 5,564 | 47.0 | 11,831 |
| 1980 (2) | *6,482 | 57.1 | 4,875 | 42.9 | 11,357 |
| 1981 (2) | 5,977 | 52.6 | 5,376 | 47.4 | 11,353 |

(1) Excludes imports of edible fishery products consumed in Puerto Rico, but includes landings of foreign-caught tuna in American Samoa. (2) Preliminary.

Note:--The weights of U.S. landings and imports represent the round (live) weight of all items except univalve and bivalve mollusks (conchs, clams, oysters, scallops, etc.) which are shown in weight of meats (excluding the shell). *Record. Record imports, 13,221 million lb; record total, 17,381 million lb. in 1968.

U.S. SUPPLY OF EDIBLE COMMERCIAL FISHERY PRODUCTS, 1972-81
(Round-weight)

| Year | Domestic commercial landings | | Imports (1) | | Total |
|---|---|---|---|---|---|
| | Million pounds | Percent | Million pounds | Percent | Million pounds |
| 1972 | 2,435 | 35.3 | 4,454 | 64.7 | 6,889 |
| 1973 | 2,398 | 33.7 | 4,709 | 66.3 | 7,107 |
| 1974 | 2,496 | 37.6 | 4,142 | 62.4 | 6,638 |
| 1975 | 2,465 | 38.6 | 3,929 | 61.4 | 6,394 |
| 1976 | 2,775 | 37.5 | 4,629 | 62.5 | 7,404 |
| 1977 (2) | 2,900 | 39.1 | 4,514 | 60.9 | 7,414 |
| 1978 (2) | 3,177 | 39.1 | *4,958 | 60.9 | 8,135 |
| 1979 (2) | 3,318 | 40.2 | 4,933 | 59.8 | 8,251 |
| 1980 (2) | *3,654 | 45.6 | 4,352 | 54.4 | 8,006 |
| 1981 (2) | 3,547 | 42.9 | 4,720 | 57.1 | *8,267 |

(1) Excludes imports of edible fishery products consumed in Puerto Rico, but includes landings of foreign-caught tuna in American Samoa. (2) Preliminary. *Record.

U.S. SUPPLY OF INDUSTRIAL COMMERCIAL FISHERY PRODUCTS, 1972-81
(Round-weight)

| Year | Domestic commercial landings | | Imports | | Total |
|---|---|---|---|---|---|
| | Million pounds | Percent | Million pounds | Percent | Million pounds |
| 1972 | 2,371 | 34.1 | 4,589 | 65.9 | 6,960 |
| 1973 | 2,460 | 75.2 | 811 | 24.8 | 3,271 |
| 1974 | 2,471 | 76.3 | 766 | 23.7 | 3,237 |
| 1975 | 2,412 | 64.0 | 1,358 | 36.0 | 3,770 |
| 1976 | 2,613 | 62.4 | 1,576 | 37.6 | 4,189 |
| 1977 (1) | 2,298 | 72.6 | 867 | 27.4 | 3,165 |
| 1978 (1) | 2,851 | 84.5 | 523 | 15.5 | 3,374 |
| 1979 (1) | *2,949 | 82.4 | 631 | 17.6 | 3,580 |
| 1980 (1) | 2,828 | 84.4 | 523 | 15.6 | 3,351 |
| 1981 (1) | 2,430 | 78.7 | 656 | 21.3 | 3,086 |

(1) Preliminary. *Record. Record imports in 1968, 9,989 million lb; record total supply, 11,802 million lb.

# SUPPLY OF FISHERY PRODUCTS

U.S. SUPPLY OF COMMERCIAL FINFISH AND SHELLFISH, 1980 AND 1981

| Item | Domestic commercial landings | | Imports (1) | | Total | |
|---|---|---|---|---|---|---|
| | 1980 | 1981 | 1980 | 1981 | 1980 | 1981 |
| | Million pounds, round weight | | | | | |
| Edible fishery products: | | | | | | |
| Finfish | 2,516 | 2,414 | 3,623 | 3,902 | 6,139 | 6,316 |
| Shellfish | 1,138 | 1,133 | 729 | 818 | 1,867 | 1,951 |
| Total | 3,654 | 3,547 | 4,352 | 4,720 | 8,006 | 8,267 |
| Industrial fishery products: | | | | | | |
| Finfish | 2,812 | 2,412 | (2)523 | (2)656 | 3,335 | 3,068 |
| Shellfish | 16 | 18 | (3) | (3) | 16 | 18 |
| Total | 2,828 | 2,430 | (2)523 | (2)656 | 3,351 | 3,086 |
| Total: | | | | | | |
| Finfish | 5,328 | 4,826 | 4,146 | 4,558 | 9,474 | 9,484 |
| Shellfish | 1,154 | 1,151 | 729 | 818 | 1,883 | 1,969 |
| Total | 6,482 | 5,977 | 4,875 | 5,376 | 11,357 | 11,353 |

See footnotes below.

VALUE OF U.S. SUPPLY OF COMMERCIAL FINFISH AND SHELLFISH, 1980 AND 1981

| Item | Domestic commercial landings | | Imports (1) | | Total | |
|---|---|---|---|---|---|---|
| | 1980 | 1981 | 1980 | 1981 | 1980 | 1981 |
| | Million dollars | | | | | |
| Edible fishery products: | | | | | | |
| Finfish | 1,019 | 1,096 | 1,249 | 1,422 | 2,268 | 2,518 |
| Shellfish | 1,073 | 1,181 | 1,203 | 1,340 | 2,276 | 2,521 |
| Total | 2,092 | 2,277 | 2,452 | 2,762 | 4,544 | 5,039 |
| Industrial fishery products: | | | | | | |
| Finfish | 136 | 100 | (2)19 | (2)24 | 155 | 124 |
| Shellfish | 9 | 11 | (3) | (3) | 9 | 11 |
| Total | 145 | 111 | (2)19 | (2)24 | 164 | 135 |
| Total: | | | | | | |
| Finfish | 1,155 | 1,196 | 1,268 | 1,446 | 2,423 | 2,642 |
| Shellfish | 1,082 | 1,192 | 1,203 | 1,340 | 2,285 | 2,532 |
| Total | 2,237 | 2,388 | 2,471 | 2,786 | 4,708 | 5,174 |

(1) Excludes imports of edible fishery products consumed in Puerto Rico, but includes landings of foreign-caught tuna in American Samoa.

(2) Includes only quantity and value of fish meal and sea herring for industrial purposes.

(3) Not available.

Note:--Value of domestic commercial landings is exvessel value.

U.S. SUPPLY OF REGULAR AND MINCED BLOCKS, 1972-81
(Edible weight)

| Year | U.S. production | | Imports | | Total supply |
|---|---|---|---|---|---|
| | Quantity | Percentage of total supply | Quantity | Percentage of total supply | Quantity |
| | Thousand pounds | Percent | Thousand pounds | Percent | Thousand pounds |
| 1972 | 3,508 | 1.0 | 355,459 | 99.0 | 358,967 |
| 1973 | 9,865 | 2.7 | 358,730 | 97.3 | 368,595 |
| 1974 | 4,417 | 1.6 | 266,073 | 98.4 | 270,490 |
| 1975 | 2,357 | .7 | 313,479 | 99.3 | 315,836 |
| 1976 | 1,697 | .4 | 378,742 | 99.6 | 380,439 |
| 1977 | 2,138 | .6 | 385,138 | 99.4 | 387,276 |
| 1978 | 1,879 | .5 | 406,286 | 99.5 | 408,165 |
| 1979 | 4,857 | 1.2 | *408,152 | 98.8 | *413,009 |
| 1980 | 1,205 | .4 | 336,117 | 99.6 | 337,322 |
| 1981 | 1,029 | .3 | 344,111 | 99.7 | 345,140 |

*Record.

U.S. SUPPLY OF ALL FILLETS AND STEAKS, 1972-81
(Edible weight)

| Year | U.S. production (1) | | Imports | | Total supply |
|---|---|---|---|---|---|
| | Quantity | Percentage of total supply | Quantity | Percentage of total supply | Quantity |
| | Thousand pounds | Percent | Thousand pounds | Percent | Thousand pounds |
| 1972 | 126,643 | 24.7 | 385,127 | 75.3 | 511,770 |
| 1973 | 133,359 | 24.1 | 419,432 | 75.9 | 552,791 |
| 1974 | 132,337 | 29.6 | 315,209 | 70.4 | 447,546 |
| 1975 | 128,923 | 25.9 | 367,948 | 74.1 | 496,871 |
| 1976 | 144,274 | 25.9 | 413,307 | 74.1 | 557,581 |
| 1977 | 160,644 | 28.8 | 398,110 | 71.2 | 558,754 |
| 1978 | 184,356 | 30.3 | 423,749 | 69.7 | 608,105 |
| 1979 | 187,167 | 30.4 | *427,526 | 69.6 | 614,693 |
| 1980 | 202,062 | 35.4 | 369,161 | 64.6 | 571,223 |
| 1981 | *208,350 | 33.5 | 414,163 | 66.5 | *622,513 |

(1) Includes fillets used to produce blocks. *Record.

U.S. SUPPLY OF GROUNDFISH FILLETS AND STEAKS, 1972-81
(Edible weight)

| Year | U.S. production (1) | | Imports | | Total supply |
|---|---|---|---|---|---|
| | Quantity | Percentage of total supply | Quantity | Percentage of total supply | Quantity |
| | Thousand pounds | Percent | Thousand pounds | Percent | Thousand pounds |
| 1972 | 39,266 | 15.5 | 213,255 | 84.5 | 252,521 |
| 1973 | 46,974 | 17.6 | 220,096 | 82.4 | 267,070 |
| 1974 | 45,337 | 21.5 | 165,351 | 78.5 | 210,688 |
| 1975 | 36,822 | 15.5 | 200,356 | 84.5 | 237,178 |
| 1976 | 40,564 | 15.1 | 228,287 | 84.9 | 268,851 |
| 1977 | 59,942 | 21.6 | 217,423 | 78.4 | 277,365 |
| 1978 | 65,573 | 22.0 | 233,106 | 78.0 | 298,679 |
| 1979 | 74,568 | 22.8 | 252,957 | 77.2 | 327,525 |
| 1980 | 66,677 | 23.2 | 220,954 | 76.8 | 287,631 |
| 1981 | 74,509 | 22.5 | *257,164 | 77.5 | *331,673 |

(1) Includes fillets used to produce blocks. Species include: cod, cusk, haddock, hake, Atlantic pollock, and Atlantic ocean perch. *Record. Record U.S. production, 148,786,000 lb in 1951.

U.S. COMMERCIAL LANDINGS AND IMPORTS OF TUNA, 1972-81

| Year | Domestic commercial landings | | | Imports | | |
|---|---|---|---|---|---|---|
| | Atlantic, Gulf, Pacific Coast States, and Hawaii | Puerto Rico | Total | Fresh and frozen including cooked loins and discs (1) | Canned | |
| | | | | | In oil | Not in oil |
| | Round weight | | | | Product weight | |
| | Thousand pounds | | | | | |
| 1972 | 387,032 | (2) 147,668 | 534,700 | 764,784 | 384 | 56,129 |
| 1973 | 346,571 | 172,492 | 519,063 | 816,739 | 244 | 38,382 |
| 1974 | 392,223 | 165,008 | 557,231 | 838,889 | 233 | 52,513 |
| 1975 | 392,527 | (2)*177,100 | 569,627 | 516,735 | 199 | 51,472 |
| 1976 | *490,567 | 174,346 | *664,913 | 641,121 | 288 | 58,605 |
| 1977 | 345,229 | 123,666 | 468,895 | 670,072 | 178 | 34,453 |
| 1978 | 408,878 | (2) 156,813 | 565,691 | *861,803 | 207 | 51,574 |
| 1979 | 364,476 | (2) 143,676 | 508,152 | 800,178 | 627 | 53,076 |
| 1980 | 399,432 | (2) 100,606 | 500,038 | 767,064 | 446 | 63,107 |
| 1981 | 341,149 | (2) 148,729 | 489,878 | 765,311 | 268 | 70,583 |

(1) Includes landings in American Samoa of foreign-caught fish. (2) Includes a small quantity of fish landed in American Samoa by U.S.-flag vessels. *Record.

U.S. SUPPLY OF CANNED TUNA, 1972-81
(Canned weight)

| Year | U.S. pack from domestic commercial landings (1) | | U.S. pack from imported fresh and frozen tuna (2) | | Total | Imported canned | | Total supply |
|---|---|---|---|---|---|---|---|---|
| | Thousand pounds | Percent | Thousand pounds | Percent | Thousand pounds | | Percent | Thousand pounds |
| 1972 | 234,000 | 34.6 | 385,796 | 57.0 | 619,796 | 56,513 | 8.4 | 676,309 |
| 1973 | 224,130 | 33.2 | 411,719 | 61.1 | 635,849 | 38,626 | 5.7 | 674,475 |
| 1974 | 249,803 | 35.0 | 410,542 | 57.6 | 660,345 | 52,746 | 7.4 | 713,091 |
| 1975 | 260,785 | 44.9 | 268,618 | 46.2 | 529,403 | 51,671 | 8.9 | 581,074 |
| 1976 | *287,003 | 43.6 | 312,188 | 47.4 | 599,191 | 58,893 | 9.0 | 658,084 |
| 1977 | 206,805 | 35.5 | 341,204 | 58.6 | 548,009 | 34,631 | 5.9 | 582,640 |
| 1978 | 257,166 | 34.0 | *447,627 | 59.2 | *704,793 | 51,781 | 6.8 | *756,574 |
| 1979 | 218,493 | 32.4 | 401,740 | 59.6 | 620,233 | 53,703 | 8.0 | 673,936 |
| 1980 | 214,559 | 32.2 | 387,497 | 58.2 | 602,056 | 63,553 | 9.6 | 665,609 |
| 1981 | 221,500 | 31.2 | 417,527 | 58.8 | 639,027 | 70,851 | 10.0 | 709,878 |

(1) Includes pack from landings by U.S.-flag vessels in Puerto Rico and American Samoa. (2) Includes tuna canned in American Samoa from foreign-caught fish. *Record.

U.S. SUPPLY OF CANNED BONITO AND YELLOWTAIL, 1972-81
(Canned weight)

| Year | U.S. pack | | Imports | | | Total supply |
|---|---|---|---|---|---|---|
| | | | In oil | Not in oil | Total | |
| | Thousand pounds | Percent | Thousand pounds | | | Thousand pounds |
| 1972 | 6,633 | 64.0 | 2,638 | 1,094 | 3,732 | 10,365 |
| 1973 | 10,572 | 88.0 | 544 | 895 | 1,439 | 12,011 |
| 1974 | 7,789 | 95.8 | 282 | 59 | 341 | 8,130 |
| 1975 | 13,088 | 99.2 | 68 | 43 | 111 | 13,199 |
| 1976 | 3,314 | 96.5 | 64 | 57 | 121 | 3,435 |
| 1977 | 9,494 | 87.3 | 17 | 1,358 | 1,375 | 10,869 |
| 1978 | 3,576 | 90.2 | 168 | 220 | 388 | 3,964 |
| 1979 | 1,491 | 80.1 | 300 | 71 | 371 | 1,862 |
| 1980 | 4,509 | 84.9 | 531 | 273 | 804 | 5,313 |
| 1981 | 5,256 | 85.6 | 581 | 305 | 886 | 6,142 |

U.S. SUPPLY OF CANNED SARDINES, 1972-81
(Canned weight)

| Year | U.S. Pack | Imports | | | Total Supply | Exports | |
|---|---|---|---|---|---|---|---|
| | | Quantity | | | | | |
| | Quantity | In oil | Not in oil | Total | | Domestic | Foreign |
| | Thousand pounds | | | | | | |
| 1972 | 36,540 | 41,544 | 28,671 | 70,215 | 106,755 | 3,030 | 311 |
| 1973 | 23,284 | 36,089 | 31,330 | 67,419 | 90,703 | 1,740 | 244 |
| 1974 | 25,131 | 29,408 | 39,729 | 69,137 | 94,268 | 1,691 | 136 |
| 1975 | 26,008 | 18,513 | 12,593 | 31,106 | 57,114 | 2,161 | 180 |
| 1976 | 24,971 | 26,891 | 26,982 | 53,873 | 78,844 | 1,829 | 77 |
| 1977 | 23,496 | 25,748 | 24,288 | 50,036 | 73,532 | 1,186 | 34 |
| 1978 | 26,376 | 24,231 | 24,486 | 48,717 | 75,093 | 1,555 | 173 |
| 1979 | 30,369 | 22,878 | 26,879 | 49,757 | 80,126 | 1,591 | 301 |
| 1980 | 19,809 | 18,218 | 32,960 | 51,178 | 70,987 | 1,839 | 78 |
| 1981 | 38,164 | 18,239 | 37,034 | 55,273 | 93,437 | 1,731 | 183 |

U.S. SUPPLY OF CANNED SALMON, 1972-81
(Canned weight)

| Year | U.S. pack (1) | Imports | Total | Exports | |
|---|---|---|---|---|---|
| | | | | Domestic | Foreign |
| | Thousand pounds | | | | |
| 1972 | 92,858 | 11,647 | 104,505 | 21,358 | 53 |
| 1973 | 71,772 | 7,859 | 79,631 | 16,941 | 24 |
| 1974 | 87,791 | 8,553 | 96,344 | 8,320 | 2 |
| 1975 | 78,086 | 3,265 | 81,351 | 22,504 | 54 |
| 1976 | 125,323 | 2,521 | 127,844 | 19,588 | 232 |
| 1977 | 150,823 | 586 | 151,409 | 21,275 | 11 |
| 1978 | 164,279 | 325 | 164,604 | 32,513 | 33 |
| 1979 | 150,066 | 434 | 150,500 | 50,907 | 70 |
| 1980 | 201,684 | 167 | 201,851 | 74,006 | 58 |
| 1981 | 217,693 | 70 | 217,763 | 63,494 | 199 |

(1) Record pack was 430,328,000 lb in 1936.

U.S. SUPPLY OF CLAM MEATS, 1972-81
(Meat weight)

| Year | U.S. commercial landings | | | | | Imports (1) | Total for U.S. consumption |
|---|---|---|---|---|---|---|---|
| | Hard | Soft | Surf | Other | Total | | |
| | Thousand pounds | | | | | | |
| 1972 | 16,153 | 9,078 | 63,471 | 1,987 | 90,689 | 5,128 | 95,817 |
| 1973 | 14,505 | 8,627 | 82,370 | 2,038 | 107,540 | 4,267 | 111,807 |
| 1974 | 14,665 | 9,590 | 96,110 | 1,328 | 121,693 | 4,913 | 126,606 |
| 1975 | 14,995 | 9,174 | 86,956 | 2,262 | 113,387 | 2,435 | 115,822 |
| 1976 | 15,251 | 10,467 | 49,158 | 7,656 | 82,532 | 6,705 | 89,237 |
| 1977 | 15,433 | 10,683 | 51,036 | 19,008 | 96,160 | 8,423 | 104,583 |
| 1978 | 13,295 | 10,091 | 39,237 | 25,088 | 87,711 | 6,131 | 93,842 |
| 1979 | 12,058 | 8,585 | 34,912 | 36,495 | 92,050 | 7,273 | 99,323 |
| 1980 | 13,370 | 8,948 | 37,737 | 35,314 | 95,369 | 6,908 | 102,277 |
| 1981 | 18,118 | 8,072 | 46,100 | 48,341 | 120,631 | 9,520 | 130,151 |

(1) Imports were converted to meat weight by using these conversion factors: 0.40 for in shell or shucked; 0.30 for canned chowder and juice; and 0.93 for other.

U.S. SUPPLY OF KING CRAB, 1972-81
(Round weight)

| Year | U.S. commercial landings | Exports (1) | |
|---|---|---|---|
| | | Frozen | Canned |
| | Thousand pounds | | |
| 1972 | (2)74,426 | (3) | 112 |
| 1973 | 76,824 | 8,278 | 8,123 |
| 1974 | 95,214 | 4,431 | 3,768 |
| 1975 | 97,626 | 4,746 | 2,377 |
| 1976 | 105,899 | 7,173 | 1,972 |
| 1977 | 99,449 | 17,819 | 1,428 |
| 1978 | 121,254 | 52,966 | 2,462 |
| 1979 | 149,980 | 64,187 | 4,616 |
| 1980 | 183,228 | 50,524 | 1,988 |
| 1981 | 86,832 | 27,704 | 703 |

(1) Domestic merchandise. Converted to round (live) weight by using these conversion factors: domestic--frozen, 1.75; and canned 5.33. (2) Data revised since publication of Fishery Statistics of the United States, 1972. (3) Data not available.

Note:--Data on U.S. commercial landings do not include deadloss weight for 1978-81.

U.S. SUPPLY OF SNOW (TANNER) CRABS, 1972-81
(Round weight)

| Year | U.S. commercial landings | Imports (1) | Total | Exports (2) |
|---|---|---|---|---|
| | | Thousand pounds | | |
| 1972 | (3)30,135 | (4) | (3)30,135 | (4) |
| 1973 | 61,719 | (4) | 61,719 | (4) |
| 1974 | 63,906 | (4) | 63,906 | (4) |
| 1975 | 46,856 | (4) | 46,856 | (4) |
| 1976 | 80,771 | (4) | 80,771 | (4) |
| 1977 | 98,329 | (4) | 98,329 | 47,045 |
| 1978 | 128,837 | 4,460 | 133,297 | 67,530 |
| 1979 | *130,453 | 4,254 | 134,707 | 91,543 |
| 1980 | 121,287 | 3,732 | 125,019 | 71,871 |
| 1981 | 104,619 | 3,460 | 108,079 | 68,155 |

(1) Converted to round (live) weight by multiplying canned weight by 5.00. (2) Domestic merchandise. Converted to round (live) weight by multiplying frozen weight by 2.13 (believed to be mostly sections). Data for foreign exports not available. (3) Data revised since publication of Fishery Statistics of the United States, 1972. (4) Data not reported separately.

Note:--Data on U.S. commercial landings do not include deadloss weight for 1978-81. *Record.

U.S. SUPPLY OF CANNED CRABMEAT, 1972-81
(Canned weight)

| Year | U.S. pack | Percentage of total | Imports | Percentage of total | Total | Exports (1) |
|---|---|---|---|---|---|---|
| | Thousand pounds | Percent | Thousand pounds | Percent | Thousand pounds | Thousand pounds |
| 1972 | 2,513 | 49.7 | 2,547 | 50.3 | 5,060 | 21 |
| 1973 | 3,724 | 65.6 | 1,956 | 34.4 | 5,680 | 1,524 |
| 1974 | 4,358 | 64.8 | 2,371 | 35.2 | 6,729 | 707 |
| 1975 | 3,283 | 69.5 | 1,440 | 30.5 | 4,723 | 446 |
| 1976 | 3,811 | 65.0 | 2,054 | 35.0 | 5,865 | 370 |
| 1977 | 5,013 | 59.1 | 3,463 | 40.9 | 8,476 | 268 |
| 1978 | 4,986 | 55.2 | 4,053 | 44.8 | 9,039 | 462 |
| 1979 | 4,723 | 48.2 | 5,073 | 51.8 | 9,796 | 866 |
| 1980 | 4,554 | 47.7 | 5,002 | 52.3 | 9,556 | 373 |
| 1981 | 3,433 | 40.6 | 5,019 | 59.4 | 8,452 | 132 |

(1) Domestic king crab only. Record production was 11,002,000 lb in 1966; record imports were 13,507,000 lb in 1939.

U.S. SUPPLY OF AMERICAN LOBSTERS, 1972-81
(Round weight)

| Year | U.S. commercial landings | | Imports (1) | | | | Total supply |
|---|---|---|---|---|---|---|---|
| | | | Quantity | | | Percentage of total supply | |
| | Quantity | Percentage of total supply | Fresh and frozen | Canned | Total | | |
| | Thousand pounds | Percent | - - - Thousand pounds - - - | | | Percent | Thousand pounds |
| 1972 | 32,244 | 52.8 | 18,811 | 10,032 | 28,843 | 47.2 | 61,087 |
| 1973 | 28,991 | 52.9 | 18,113 | 7,656 | 25,769 | 47.1 | 54,760 |
| 1974 | 28,543 | 53.3 | 17,586 | 7,392 | 24,978 | 46.7 | 53,521 |
| 1975 | 30,200 | 52.3 | 18,325 | 9,243 | 27,568 | 47.7 | 57,768 |
| 1976 | 31,483 | 51.9 | 19,176 | 9,957 | 29,133 | 48.1 | 60,616 |
| 1977 | 31,708 | 52.4 | 16,944 | 11,818 | 28,762 | 47.6 | 60,470 |
| 1978 | 34,419 | 55.9 | 16,468 | 10,648 | 27,116 | 44.1 | 61,535 |
| 1979 | 37,184 | 54.5 | 22,790 | 8,307 | 31,097 | 45.5 | 68,281 |
| 1980 | 36,952 | 53.4 | 22,503 | 9,699 | 32,202 | 46.6 | 69,154 |
| 1981 | *37,494 | 48.2 | 26,857 | 13,459 | 40,316 | 51.8 | *77,810 |

(1) Imports were converted to round (live) weight by using these conversion factors: 1.00, whole; 4.50, meat; and 4.64, canned. *Record.

U.S. SUPPLY OF SPINY LOBSTERS, 1972-81
(Round weight)

| Year | U.S. commercial landings | | Imports (1) | | | | Total supply |
|---|---|---|---|---|---|---|---|
| | | | Quantity | | | Percentage of total supply | |
| | Quantity | Percentage of total supply | Fresh and frozen | Canned | Total | | |
| | Thousand pounds | Percent | - - - Thousand pounds - - - | | | Percent | Thousand pounds |
| 1972 | *12,215 | 8.0 | 139,802 | 428 | 140,230 | 92.0 | 152,445 |
| 1973 | 11,432 | 8.5 | 123,219 | 603 | 123,822 | 91.5 | 135,254 |
| 1974 | 11,708 | 8.1 | 132,158 | 428 | 132,586 | 91.9 | 144,294 |
| 1975 | 7,613 | 5.1 | 142,280 | 504 | 142,784 | 94.9 | 150,397 |
| 1976 | 5,643 | 3.2 | 164,859 | 3,236 | *168,095 | 96.8 | *173,738 |
| 1977 | 5,483 | 3.5 | 149,156 | 1,517 | 150,673 | 96.5 | 156,156 |
| 1978 | 4,629 | 3.1 | 143,945 | 563 | 144,508 | 96.9 | 149,137 |
| 1979 | 6,301 | 4.0 | 150,470 | 604 | 151,074 | 96.0 | 157,375 |
| 1980 | 6,861 | 5.4 | 119,817 | 396 | 120,213 | 94.6 | 127,074 |
| 1981 | 6,619 | 4.9 | 126,210 | 978 | 127,188 | 95.1 | 133,807 |

(1) Imports were converted to round (live) weight by using these conversion factors: 1.00, whole; 3.00, tails; 4.35, other; and 4.50, canned. *Record.

U.S. SUPPLY OF OYSTERS, 1972-81
(Meat weight)

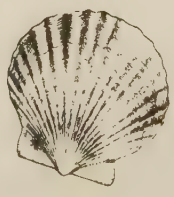
| Year | U.S. commercial landings | | | | Imports (1) | Total for U.S. consumption |
|---|---|---|---|---|---|---|
| | Eastern | Pacific | Western | Total | | |
| | Thousand pounds | | | | | |
| 1972 | 47,667 | 8,362 | 29 | 56,058 | 30,893 | 86,951 |
| 1973 | 45,333 | 6,576 | 22 | 51,931 | 26,351 | 78,282 |
| 1974 | 45,125 | 5,030 | 21 | 50,176 | 23,634 | 73,810 |
| 1975 | 47,398 | 5,807 | 22 | 53,227 | 20,542 | 73,769 |
| 1976 | 48,010 | 6,354 | 31 | 54,395 | 23,682 | 78,077 |
| 1977 | 40,436 | 5,590 | (2) | 46,026 | 29,774 | 75,800 |
| 1978 | 45,183 | 5,800 | (2) | 50,983 | 33,843 | 84,826 |
| 1979 | 42,325 | 5,756 | (2) | 48,081 | 27,131 | 75,212 |
| 1980 | 42,439 | 6,642 | (2) | 49,081 | 21,732 | 70,813 |
| 1981 | 44,440 | 5,612 | (2) | 50,052 | 25,769 | 75,821 |

(1) Imports were converted to meat weight by using these conversion factors: 0.93, canned; 3.12, canned smoked; and 0.75 for other. (2) Not available.

U.S. SUPPLY OF SCALLOP MEATS, 1972-81
(Edible weight)

| Year | U.S. commercial landings | | | | Imports | Total for U.S. consumption |
|---|---|---|---|---|---|---|
| | Bay | Calico | Sea | Total | | |
| | Thousand pounds | | | | | |
| 1972 | 2,032 | 1,352 | 7,017 | 10,401 | 20,820 | 31,221 |
| 1973 | 1,014 | 558 | 6,400 | 7,972 | 19,833 | 27,805 |
| 1974 | 1,499 | 1,131 | 6,444 | 9,074 | 18,100 | 27,174 |
| 1975 | 1,648 | 1,992 | 10,063 | 13,703 | 19,737 | 33,440 |
| 1976 | 1,590 | 2,268 | 19,853 | 23,711 | 25,253 | 48,964 |
| 1977 | 1,703 | 1,111 | 25,012 | 27,826 | *29,786 | 57,612 |
| 1978 | 1,371 | 948 | 30,976 | 33,295 | 28,367 | 61,662 |
| 1979 | 1,774 | 863 | 31,466 | 34,103 | 25,155 | 59,258 |
| 1980 | 968 | - | 28,752 | 29,720 | 20,885 | 50,605 |
| 1981 | 670 | 14,641 | 30,277 | *45,588 | 26,227 | *71,815 |

*Record.



U.S. SUPPLY OF ALL FORMS OF SHRIMP, 1972-81
(Heads-off weight)

| Year | U.S. commercial landings | Imports (1) | Total | Exports (2) | | | |
|---|---|---|---|---|---|---|---|
| | | | | Fresh and frozen | | Canned | |
| | | | | Domestic | Foreign | Domestic | Foreign |
| | Thousand pounds | | | | | | |
| 1972 | 235,852 | 254,534 | 490,386 | 34,201 | 6,095 | 17,069 | 20 |
| 1973 | 228,643 | 230,780 | 459,423 | *44,172 | 10,212 | *20,097 | 106 |
| 1974 | 225,529 | 267,462 | 492,991 | 32,719 | 6,383 | 13,908 | 91 |
| 1975 | 209,151 | 230,963 | 440,114 | 33,132 | 6,586 | 12,570 | 10 |
| 1976 | 245,597 | *270,720 | 516,317 | 27,489 | 9,138 | 15,693 | 181 |
| 1977 | *288,443 | 270,406 | *558,849 | 30,785 | 8,902 | 18,111 | 121 |
| 1978 | 256,882 | 239,044 | 495,926 | 41,065 | 13,308 | 12,088 | 146 |
| 1979 | 205,587 | 267,119 | 472,706 | 34,143 | 5,826 | 11,047 | 63 |
| 1980 | 207,869 | 255,957 | 463,826 | 18,770 | 9,567 | 11,781 | *935 |
| 1981 | 218,900 | 256,920 | 475,820 | 20,777 | 13,687 | 9,180 | 77 |

(1) Imports were converted to heads-off weight by using these conversion factors: 0.63, breaded; 1.00, shell-on; 1.28, peeled raw; 2.02, canned; and 2.40 for other. (2) Exports were converted to heads-off weight by using these conversion factors: domestic--fresh and frozen, 1.18 and canned, 2.02; foreign--fresh and frozen, 1.00 and canned, 2.52. *Record. Record fresh and frozen foreign exports were 14,699,000 in 1970.

U.S. SUPPLY OF CANNED SHRIMP, 1972-81
(Canned weight)

| Year | U.S. pack | Percentage of total | Imports | Percentage of total | Total | Exports | |
|---|---|---|---|---|---|---|---|
| | | | | | | Domestic | Foreign |
| | Thousand pounds | Percent | Thousand pounds | Percent | Thousand pounds | | |
| 1972 | 23,795 | 95.5 | 1,123 | 4.5 | 24,918 | 8,450 | 8 |
| 1973 | *25,228 | 89.3 | 3,027 | 10.7 | 28,255 | *9,949 | 42 |
| 1974 | 22,121 | 78.4 | *6,107 | 21.6 | 28,228 | 6,885 | 36 |
| 1975 | 12,407 | 91.7 | 1,118 | 8.3 | 13,525 | 6,223 | 4 |
| 1976 | 19,041 | 89.0 | 2,350 | 11.0 | 21,391 | 7,769 | 72 |
| 1977 | 24,525 | 89.7 | 2,809 | 10.3 | 27,334 | 8,966 | 48 |
| 1978 | 16,806 | 86.0 | 2,739 | 14.0 | 19,545 | 5,984 | 58 |
| 1979 | 9,584 | 69.1 | 4,288 | 30.9 | 13,872 | 5,469 | 25 |
| 1980 | 15,886 | 79.0 | 4,225 | 21.0 | 20,111 | 5,832 | *371 |
| 1981 | 12,410 | 73.9 | 4,383 | 26.1 | 16,793 | 4,545 | 31 |

*Record. Record total supply was 29,001,000 in 1970.

U.S. SUPPLY OF FISH MEAL AND SOLUBLES, 1972-81
(Product weight)

| Year | U.S. production (1) | | Imports | | Total |
|---|---|---|---|---|---|
| | Short tons | Percent | Short tons | Percent | Short tons |
| 1972 | 352,704 | 47.4 | 391,998 | 52.6 | 744,702 |
| 1973 | 356,235 | 83.8 | 68,651 | 16.2 | 424,886 |
| 1974 | 369,344 | 84.4 | 68,307 | 15.6 | 437,651 |
| 1975 | 354,356 | 75.0 | 118,395 | 25.0 | 472,751 |
| 1976 | 376,248 | 72.7 | 140,988 | 27.3 | 517,236 |
| 1977 | 343,456 | 80.7 | 81,901 | 19.3 | 425,357 |
| 1978 | *444,182 | 91.0 | (2)43,901 | 9.0 | 488,083 |
| 1979 | 441,757 | 83.1 | (2)89,613 | 16.9 | 531,370 |
| 1980 | 428,763 | 89.6 | (2)49,537 | 10.4 | 478,300 |
| 1981 | 382,742 | 86.6 | (2)59,434 | 13.4 | 442,176 |

(1) Includes shellfish meal production. (2) Data do not include imports of fish solubles for 1978-81.

Note:--Wet weight of solubles has been converted to dry weight by reducing its poundage by one-half. *Record. Record imports in 1968, 856,172 short tons and total, 1,127,225 short tons.

U.S. SUPPLY OF FISH MEAL, 1972-81
(Product weight)

| Year | Domestic production (1) | Imports | Total supply | Exports (2) | Total for U.S. consumption |
|---|---|---|---|---|---|
| | | | Short tons | | |
| 1972 | 285,506 | 391,955 | 677,461 | 18,869 | 658,592 |
| 1973 | 287,517 | 68,496 | 356,013 | 45,745 | 310,268 |
| 1974 | 300,714 | 68,297 | 369,011 | 55,522 | 313,489 |
| 1975 | 290,431 | 118,371 | 408,802 | 12,475 | 396,327 |
| 1976 | 309,694 | 140,377 | 450,071 | 33,322 | 416,749 |
| 1977 | 282,291 | 81,491 | 363,782 | 37,199 | 326,583 |
| 1978 | 362,910 | 43,901 | 406,811 | 54,633 | 352,178 |
| 1979 | *374,293 | 89,613 | 463,906 | 16,456 | 447,450 |
| 1980 | 361,922 | 49,537 | 411,459 | *86,036 | 325,423 |
| 1981 | 318,431 | 59,434 | 377,865 | 49,719 | 328,146 |

(1) Includes shellfish meal. (2) Includes exports of domestic and foreign fish meal. *Record. Record imports in 1968, 855,285 short tons; total supply and total for U.S. consumption, 1,090,421 short tons.

U.S. SUPPLY OF FISH SOLUBLES, 1972-81
(Product weight)

| Year | U.S. production | | Imports (1) | | Total |
|---|---|---|---|---|---|
| | Short tons | Percent | Short tons | Percent | Short tons |
| 1972 | 134,395 | 99.9 | 85 | 0.1 | 134,480 |
| 1973 | 137,435 | 99.8 | 309 | .2 | 137,744 |
| 1974 | 137,259 | 100.0 | 19 | (2) | 137,278 |
| 1975 | 127,850 | 100.0 | 48 | (2) | 127,898 |
| 1976 | 133,107 | 99.1 | 1,221 | .9 | 134,328 |
| 1977 | 122,330 | 99.3 | 820 | .7 | 123,150 |
| 1978 | 162,543 | 100.0 | (3) | - | 162,543 |
| 1979 | 134,928 | 100.0 | (3) | - | 134,928 |
| 1980 | 133,682 | 100.0 | (3) | - | 133,682 |
| 1981 | 128,621 | 100.0 | (3) | - | 128,621 |

(1) Includes only fish solubles and will not check with other tables that show total imports of fish solubles and cod-liver solubles for years 1970 to 1977. (2) Less than one-tenth of 1 percent. (3) Data no longer reported separately by the Bureau of the Census.

Note:--Record U.S. production in 1959, 165,359 short tons; imports, 26,630 short tons; and total, 191,989 short tons.

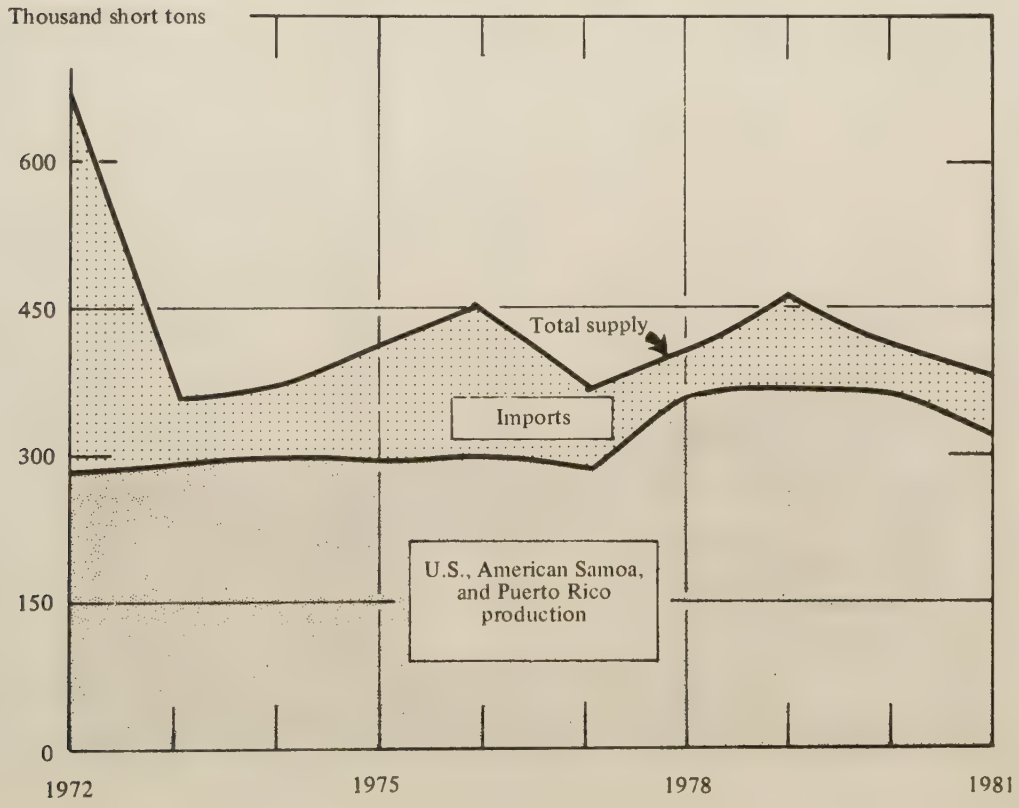
U.S SUPPLY OF FISH OILS, 1972-81

| Year | Domestic production | Imports (1) | Total supply | Exports | Total for U.S. consumption |
|---|---|---|---|---|---|
| | | | Thousand pounds | | |
| 1972 | 188,445 | 9,466 | 197,911 | 193,198 | 4,713 |
| 1973 | 224,634 | 6,733 | 231,367 | 247,793 | (2) |
| 1974 | 237,980 | 12,356 | 250,336 | 199,122 | 51,214 |
| 1975 | 245,653 | 11,283 | 256,936 | 191,843 | 65,093 |
| 1976 | 204,581 | 20,937 | 225,518 | 179,235 | 46,283 |
| 1977 | 133,182 | 13,731 | 146,913 | 90,633 | 56,280 |
| 1978 | 296,287 | 16,041 | 312,328 | 222,012 | 90,316 |
| 1979 | 267,949 | 14,463 | 282,412 | 198,497 | 83,915 |
| 1980 | *312,511 | 21,350 | 333,861 | 284,009 | 49,852 |
| 1981 | 184,303 | 18,255 | 202,558 | 238,308 | (2) |

(1) Excludes fish liver oil.
(2) For 1973 and 1981, exports which included prior year stocks, exceeded domestic production plus imports. *Record.

Note:--Does not include exports of foreign merchandise.

U.S. SUPPLY OF FISH MEAL, 1972-81)
(Domestic production plus imports)



## INDEXES OF EXVESSEL PRICES

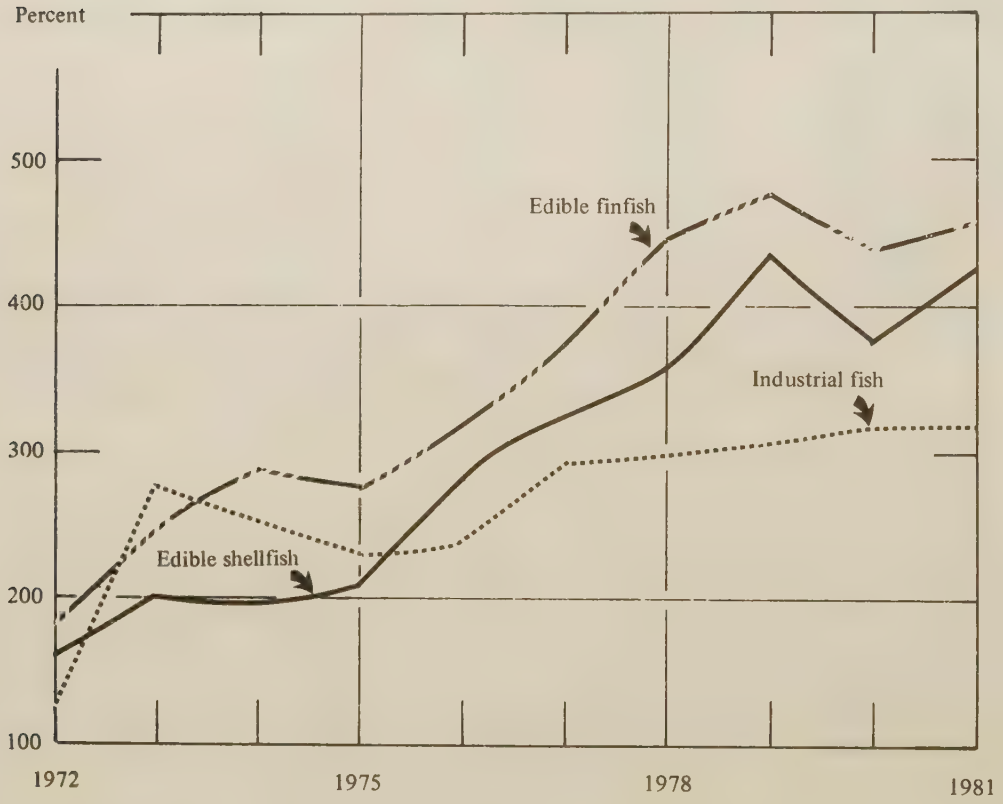
The tables that follow show indexes of exvessel prices prepared by the National Marine Fisheries Service. Most of the prices used in calculating the "Indexes of Exvessel Prices for Fish and Shellfish" are based on monthly landings and value data. In a few cases, prices are obtained from Fishery Market News Reports and Market News Offices. The index for each species is calculated by multiplying the current monthly price by the total quantity caught in 1967 (the base year) to obtain a value for the current month. That value is then divided by the 1967 average monthly value to obtain the final index:

$$\frac{\text{(Current price X 1967 quantity)}}{\text{1967 average monthly value}} = \text{Index for each species}$$

To calculate the index for salmon, tuna, New England finfish, and other shellfish, the current monthly values for each of these species are added together and divided by the aggregate 1967 average monthly values for the group. To calculate monthly indexes for edible finfish, edible shellfish, edible fish, industrial fish, and all fish, the index number for each species is multiplied by a factor representing its importance in the total exvessel value of all species of fish and shellfish for the period 1966-70; the sum of these products is the index number for the group of species.

Each index number calculated for years other than the base year of 1967 measures price changes from the reference period (1967) which equals 100. An increase of 85 percent from the reference period in the index, for example, is shown as 185.0. This change can also be expressed in dollars, as follows: The price of a species of fish that sold in the United States for $1.00 per pound in 1967 has increased to $1.85 per pound.

INDEXES OF EXVESSEL PRICES, 1972-81
(1967 = 100)



## EXVESSEL

INDEXES OF EXVESSEL PRICES FOR FISH AND SHELLFISH, BY YEARS, 1976-81
(1967=100)

| Species or group | 1976 | 1977 | 1978 | 1979 | 1980 | 1981 (1) |
|---|---|---|---|---|---|---|
| New England finfish: | | | | | | |
| Cod | 312.5 | 284.6 | 287.5 | 335.7 | 325.0 | 402.1 |
| Haddock | 290.2 | 246.8 | 241.0 | 299.7 | 285.2 | 304.4 |
| Yellowtail flounder | 399.3 | 432.4 | 558.2 | 497.7 | 438.3 | 500.5 |
| Other flounders | 381.0 | 278.3 | 352.6 | 346.3 | 299.4 | 359.0 |
| Ocean perch | 347.1 | 391.5 | 440.1 | 544.3 | 615.9 | 737.7 |
| Pollock | 255.9 | 267.9 | 307.4 | 376.8 | 346.2 | 425.8 |
| Whiting | 180.8 | 213.6 | 307.6 | 365.6 | 384.9 | 348.5 |
| New England finfish | 305.7 | 298.9 | 343.9 | 373.9 | 357.0 | 401.6 |
| Red snapper | 275.5 | 330.8 | 389.0 | 455.7 | 504.5 | 540.9 |
| Pacific halibut | 463.3 | 494.8 | 550.6 | 674.6 | 506.3 | 496.9 |
| Salmon: | | | | | | |
| Chinook - troll | 312.7 | 404.4 | 401.2 | 468.4 | 448.9 | 503.8 |
| Chinook - nontroll | 369.0 | 564.2 | 548.9 | 642.6 | 553.5 | 539.6 |
| Chum | 564.2 | 664.6 | 738.8 | 815.3 | 658.8 | 651.5 |
| Coho - troll | 287.1 | 330.2 | 346.2 | 454.7 | 411.2 | 380.7 |
| Coho - nontroll | 370.0 | 478.0 | 538.5 | 507.4 | 569.6 | 472.6 |
| Pink | 275.1 | 378.6 | 402.8 | 350.4 | 360.2 | 359.6 |
| Sockeye | 452.4 | 490.4 | 781.8 | 819.1 | 486.9 | 490.4 |
| Salmon | 380.9 | 459.0 | 572.6 | 615.4 | 479.0 | 470.8 |
| Tuna: | | | | | | |
| Albacore | 246.0 | 286.0 | 316.3 | 338.1 | 398.0 | 457.7 |
| Skipjack | 246.6 | 316.8 | 353.4 | 355.0 | 485.2 | 493.3 |
| Bluefin | 225.6 | 285.7 | 323.9 | 346.0 | 427.1 | 468.4 |
| Yellowfin | 209.5 | 209.5 | 297.8 | 315.6 | 420.3 | 425.8 |
| Tuna | 228.6 | 286.8 | 318.8 | 332.9 | 434.4 | 453.6 |
| Edible finfish | 319.7 | 370.7 | 448.3 | 476.4 | 439.1 | 453.5 |
| Shrimp | 298.0 | 301.5 | 313.1 | 452.3 | 369.4 | 397.2 |
| Other shellfish: | | | | | | |
| Hard clams | 204.5 | 229.1 | 265.9 | 330.4 | 400.0 | 429.4 |
| Soft clams | 310.2 | 342.7 | 364.7 | 432.7 | 458.7 | 466.0 |
| Surf clams | 482.6 | 517.7 | 521.7 | 522.2 | 509.0 | 510.4 |
| Hard blue crabs | 383.9 | 440.5 | 372.3 | 376.6 | 361.0 | 397.9 |
| King crabs | 659.6 | 923.1 | 1,267.0 | 1,283.1 | 855.4 | 1,304.8 |
| American lobsters | 216.3 | 245.1 | 264.3 | 262.8 | 278.1 | 304.0 |
| Eastern oysters | 152.5 | 173.6 | 171.1 | 186.4 | 192.2 | 194.6 |
| Sea scallops | 247.2 | 216.0 | 327.2 | 439.4 | 535.2 | 539.0 |
| Other shellfish | 281.6 | 336.6 | 393.7 | 419.6 | 383.2 | 456.9 |
| Edible shellfish | 289.7 | 319.4 | 354.2 | 435.6 | 376.4 | 427.7 |
| Edible fish | 303.9 | 343.7 | 398.7 | 454.9 | 406.1 | 439.9 |
| Industrial fish | 234.8 | 292.6 | 293.6 | 305.1 | 315.6 | 314.1 |
| Menhaden | 234.8 | 292.6 | 293.6 | 305.1 | 315.6 | 314.1 |
| All fish | 299.1 | 340.1 | 391.4 | 444.6 | 399.9 | 431.0 |

(1) Preliminary.

Note:--Simple averages of the 12 monthly indexes. Upward or downward changes in this index will not necessarily agree with changes in unit values shown in landings tables.

# PRICES

## EXVESSEL

INDEXES OF EXVESSEL PRICES FOR FISH AND SHELLFISH, BY MONTHS, 1981
(1967=100)

| Species or group | Jan. | Feb. | Mar. | Apr. | May | June |
|---|---|---|---|---|---|---|
| New England finfish: | | | | | | |
| Cod | 475.1 | 336.7 | 463.3 | 429.3 | 245.2 | 297.9 |
| Haddock | 322.0 | 233.1 | 342.6 | 337.7 | 191.1 | 210.8 |
| Yellowtail flounder | 536.9 | 676.7 | 631.6 | 575.7 | 433.1 | 459.3 |
| Other flounders | 368.1 | 391.3 | 375.4 | 322.5 | 212.3 | 297.8 |
| Ocean perch | 825.4 | 812.7 | 840.7 | 845.8 | 807.6 | 802.5 |
| Pollock | 345.2 | 424.8 | 509.3 | 445.0 | 335.0 | 350.3 |
| Whiting | 326.5 | 269.3 | 352.0 | 369.0 | 250.2 | 411.4 |
| New England finfish | 428.9 | 403.9 | 458.7 | 435.9 | 303.6 | 348.5 |
| Red snapper | 499.9 | 511.0 | 527.7 | 591.5 | 569.3 | 549.9 |
| Pacific halibut | 460.0 | 460.0 | 460.0 | 460.0 | 460.0 | 477.7 |
| Salmon: | | | | | | |
| Chinook - troll | 424.2 | 424.2 | 424.2 | 424.2 | 572.7 | 540.9 |
| Chinook - nontroll | 498.1 | 498.1 | 498.1 | 498.1 | 738.0 | 738.0 |
| Chum | 655.1 | 655.1 | 655.1 | 655.1 | 655.1 | 655.1 |
| Coho - troll | 367.4 | 367.4 | 367.4 | 367.4 | 367.4 | 391.9 |
| Coho - nontroll | 549.5 | 549.5 | 549.5 | 549.5 | 549.5 | 549.5 |
| Pink | 314.4 | 314.4 | 314.4 | 314.4 | 510.8 | 345.8 |
| Sockeye | 213.2 | 213.2 | 213.2 | 213.2 | 213.2 | 682.3 |
| Salmon | 363.5 | 363.5 | 363.5 | 363.5 | 427.3 | 562.8 |
| Tuna: | | | | | | |
| Albacore | 432.4 | 432.4 | 432.4 | 432.4 | 432.4 | 475.8 |
| Skipjack | 493.3 | 493.3 | 493.3 | 493.3 | 493.3 | 493.3 |
| Bluefin | 468.4 | 468.4 | 468.4 | 468.4 | 468.4 | 468.4 |
| Yellowfin | 425.8 | 425.8 | 425.8 | 425.8 | 425.8 | 425.8 |
| Tuna | 448.3 | 448.3 | 448.3 | 448.3 | 448.3 | 457.4 |
| Edible finfish | 411.0 | 405.9 | 418.2 | 414.8 | 411.7 | 480.2 |
| Shrimp | 339.2 | 401.0 | 419.1 | 434.9 | 431.6 | 421.6 |
| Other shellfish: | | | | | | |
| Hard clams | 472.3 | 491.6 | 441.7 | 329.5 | 380.3 | 407.7 |
| Soft clams | 497.1 | 443.8 | 373.7 | 381.8 | 378.6 | 413.6 |
| Surf clams | 520.4 | 484.5 | 491.7 | 504.0 | 541.0 | 502.0 |
| Hard blue crabs | 384.2 | 423.1 | 539.9 | 594.0 | 563.6 | 443.4 |
| King crabs | 1,068.4 | 1,068.4 | 1,068.4 | 1,068.4 | 1,068.4 | 1,068.4 |
| American lobsters | 411.7 | 482.5 | 429.2 | 338.9 | 264.8 | 299.0 |
| Eastern oysters | 238.7 | 216.0 | 189.1 | 188.5 | 187.6 | 190.4 |
| Sea scallops | 691.5 | 668.0 | 636.2 | 607.1 | 518.1 | 510.7 |
| Other shellfish | 477.2 | 485.2 | 463.9 | 433.2 | 417.4 | 431.3 |
| Edible shellfish | 409.6 | 443.9 | 441.9 | 434.0 | 424.4 | 426.5 |
| Edible fish | 410.3 | 425.9 | 430.7 | 424.9 | 418.4 | 451.9 |
| Industrial | 323.7 | 323.7 | 323.7 | 313.1 | 322.0 | 301.8 |
| Menhaden | 323.7 | 323.7 | 323.7 | 313.1 | 322.0 | 301.8 |
| All fish | 404.3 | 418.8 | 423.3 | 415.8 | 410.7 | 441.6 |

(Continued)

## EXVESSEL

INDEXES OF EXVESSEL PRICES FOR FISH AND SHELLFISH, BY MONTHS, 1981 - Continued
(1967=100)

| Species or group | July | Aug. | Sept. | Oct. | Nov. | Dec. |
|---|---|---|---|---|---|---|
| New England finfish: | | | | | | |
| Cod | 342.5 | 419.9 | 441.0 | 478.6 | 429.3 | 466.8 |
| Haddock | 243.8 | 277.6 | 286.6 | 387.1 | 414.3 | 406.0 |
| Yellowtail flounder | 524.2 | 430.4 | 449.3 | 429.5 | 423.2 | 435.8 |
| Other flounders | 408.0 | 385.5 | 398.6 | 353.6 | 392.0 | 402.9 |
| Ocean perch | 616.5 | 596.1 | 626.7 | 657.3 | 715.9 | 705.7 |
| Pollock | 416.2 | 450.1 | 485.6 | 433.2 | 451.7 | 463.6 |
| Whiting | 413.5 | 358.4 | 441.1 | 343.5 | 328.7 | 318.1 |
| New England finfish | 379.5 | 374.5 | 395.9 | 420.0 | 433.1 | 436.7 |
| Red snapper | 536.0 | 536.0 | 547.1 | 558.2 | 536.0 | 527.7 |
| Pacific halibut | 530.8 | 530.8 | 530.8 | 530.8 | 530.8 | 530.8 |
| Salmon: | | | | | | |
| Chinook - troll | 530.2 | 540.9 | 540.9 | 540.9 | 540.9 | 540.9 |
| Chinook - nontroll | 664.2 | 738.0 | 553.5 | 313.6 | 369.0 | 369.0 |
| Chum | 698.8 | 698.8 | 698.8 | 698.8 | 655.1 | 436.7 |
| Coho - troll | 355.1 | 416.3 | 391.9 | 391.9 | 391.9 | 391.9 |
| Coho - nontroll | 505.5 | 263.7 | 549.5 | 505.5 | 329.6 | 219.8 |
| Pink | 392.9 | 392.9 | 353.7 | 353.7 | 353.7 | 353.7 |
| Sockeye | 724.9 | 682.3 | 682.3 | 682.3 | 682.3 | 682.3 |
| Salmon | 570.4 | 555.8 | 551.3 | 526.7 | 514.4 | 487.3 |
| Tuna: | | | | | | |
| Albacore | 475.8 | 475.8 | 475.8 | 475.8 | 475.8 | 475.8 |
| Skipjack | 493.3 | 493.3 | 493.3 | 493.3 | 493.3 | 493.3 |
| Bluefin | 468.4 | 468.4 | 468.4 | 468.4 | 468.4 | 468.4 |
| Yellowfin | 425.8 | 425.8 | 425.8 | 425.8 | 425.8 | 425.8 |
| Tuna | 457.4 | 457.4 | 457.4 | 457.4 | 457.4 | 457.4 |
| Edible finfish | 492.1 | 485.0 | 488.1 | 483.6 | 480.8 | 470.2 |
| Shrimp | 382.4 | 329.9 | 373.7 | 426.1 | 405.1 | 401.9 |
| Other shellfish: | | | | | | |
| Hard clams | 462.6 | 441.3 | 363.3 | 440.4 | 440.6 | 481.6 |
| Soft clams | 477.3 | 547.7 | 509.1 | 531.9 | 511.8 | 526.2 |
| Surf clams | 496.8 | 513.3 | 657.0 | 646.7 | 423.9 | 342.9 |
| Hard blue crabs | 409.6 | 343.6 | 308.0 | 250.5 | 236.9 | 277.6 |
| King crabs | 1,068.4 | 1,068.4 | 1,239.3 | 1,940.1 | 1,965.8 | 1,965.8 |
| American lobsters | 228.2 | 205.1 | 217.1 | 235.0 | 244.5 | 292.6 |
| Eastern oysters | 171.5 | 149.6 | 192.8 | 197.3 | 194.4 | 219.0 |
| Sea scallops | 458.7 | 421.9 | 493.9 | 529.2 | 474.1 | 458.8 |
| Other shellfish | 401.5 | 382.3 | 417.3 | 523.8 | 514.0 | 536.2 |
| Edible shellfish | 392.1 | 356.6 | 396.0 | 475.9 | 460.6 | 470.4 |
| Edible fish | 439.4 | 417.3 | 439.6 | 479.5 | 470.2 | 470.3 |
| Industrial fish | 321.2 | 322.8 | 339.8 | 358.4 | 279.2 | 240.3 |
| Menhaden | 321.2 | 322.8 | 339.8 | 358.4 | 279.2 | 240.3 |
| All fish | 431.3 | 410.9 | 432.7 | 471.2 | 457.0 | 454.4 |

Note:--Data are preliminary. Monthly prices for species representing about 70 percent of the landed value of all fish and shellfish during recent years have been combined into index groups to indicate movement of exvessel prices.

# PRICES

## WHOLESALE

AVERAGE WHOLESALE PRICES FOR EDIBLE FISH AND SHELLFISH, BY MONTHS, 1981

| Group, subgroup, and item specification | Point of pricing | Unit | Jan. | Feb. | Mar. | Apr. | May | June |
|---|---|---|---|---|---|---|---|---|
| | | | - - - - - - - - Dollars - - - - - - - - | | | | | |
| FRESH AND FROZEN FISHERY PRODUCTS: | | | | | | | | |
| Haddock, large, offshore, drawn, fresh. . . . . | Boston | lb | 1.11 | 0.71 | 0.96 | 1.10 | 0.35 | 0.46 |
| Halibut, western 20-80 lb, dressed, fresh and frozen. . . . | New York | lb | 2.05 | 2.05 | 2.14 | 2.15 | 1.90 | 1.90 |
| Salmon, king, large and medium, dressed, fresh and frozen. . . . | New York | lb | 1.50 | 1.50 | 1.50 | 1.55 | 2.20 | 2.20 |
| Whitefish, Lake Superior, drawn, fresh. . . . . | Chicago | lb | 2.30 | 2.85 | 2.78 | 2.38 | 1.18 | 1.32 |
| Yellow pike, Lakes Michigan and Huron, round, fresh. . . . . | New York | lb | 2.60 | 2.15 | 2.50 | 2.35 | 2.35 | 2.35 |
| PROCESSED, FRESH (fish and shellfish): | | | | | | | | |
| Fillets, haddock, small, skin on, 20-lb tins . . . . . | Boston | lb | 2.88 | 1.40 | 2.70 | 2.92 | 1.25 | 1.30 |
| Shrimp, large (26-30 count), headless, fresh. . . . . | New York | lb | 4.75 | 4.75 | 4.75 | 4.75 | 4.75 | 4.75 |
| Oysters, shucked, standards . . . | Norfolk | gal | 20.00 | 20.00 | 20.00 | 19.50 | 20.00 | 20.00 |
| PROCESSED, FROZEN (fish and shellfish): | | | | | | | | |
| Fillets: Cod, skinless, Canadian, 1-lb package | Boston | lb | - | 1.16 | 1.16 | 1.16 | 1.16 | 1.15 |
| Flounder, skinless, 1-lb package . . . . . | Boston | lb | 1.58 | 1.58 | 1.58 | 1.58 | 1.58 | 1.58 |
| Ocean perch, large, skin on, 1-lb package | Boston | lb | 1.02 | 1.02 | 1.05 | 1.00 | 1.00 | 1.00 |
| Shrimp, large (26-30 count), brown, 5-lb package. . . . . | Chicago | lb | 4.32 | 4.68 | 4.82 | 4.92 | 4.95 | 4.82 |
| Shrimp, raw, breaded (15-20 count), 4-lb package . . . . . | Selected areas | lb | 3.66 | 3.69 | 3.70 | 3.77 | 3.81 | 3.79 |
| Fish blocks, cod, raw, 13-1/2 - 16-lb carton . . . . . | Selected areas | lb | 1.14 | 1.14 | 1.15 | 1.13 | 1.14 | 1.10 |
| Fish sticks, cod, precooked, breaded, 1/2-1-lb package. . . . | Selected areas | lb | 1.30 | 1.30 | 1.30 | 1.45 | 1.52 | 1.52 |
| Fish portions, cod, raw, breaded, 6-lb package. . . . . | Selected areas | lb | 1.31 | 1.31 | 1.33 | 1.34 | 1.34 | 1.34 |
| CANNED FISHERY PRODUCTS: | | | | | | | | |
| Salmon, pink, No. 1 tall (16-oz) 48 cans/case . . . . . | Seattle | case | 86.00 | 86.00 | 86.00 | 86.00 | 86.00 | 86.00 |
| Tuna, light meat, chunk, No. 1/2 (6-1/2-oz) 48 cans/case. . . . . | Los Angeles | case | 44.75 | 44.75 | 44.75 | 44.75 | 44.75 | 44.75 |
| Sardines, Maine, keyless, oil, 1/4 drawn (3-3/4-oz) 100 cans/case. . . . . | New York | case | 36.00 | 36.00 | 36.00 | 36.00 | 36.00 | 38.00 |

(Continued)

## WHOLESALE

AVERAGE WHOLESALE PRICES FOR EDIBLE FISH AND SHELLFISH, BY MONTHS, 1981 - Continued

| Group, subgroup, and item specification | Point of pricing | Unit | July | Aug. | Sept. | Oct. | Nov. | Dec. |
|---|---|---|---|---|---|---|---|---|
| | | | - - - - - - - - Dollars - - - - - - - - | | | | | |
| FRESH AND FROZEN FISHERY PRODUCTS: | | | | | | | | |
| Haddock, large, offshore, drawn, fresh. . . . . | Boston | lb | 0.60 | 0.60 | 0.60 | 0.70 | 0.45 | 0.61 |
| Halibut, western, 20-80 lb, dressed, fresh or frozen . . . . | New York | lb | 1.90 | 1.95 | 1.88 | 1.85 | 1.86 | 1.80 |
| Salmon, king, large and medium, dressed, fresh or frozen . . . . | New York | lb | 2.20 | 2.20 | 1.90 | 2.20 | 2.20 | 2.20 |
| Whitefish, Lake Superior, drawn, fresh. . . . . | Chicago | lb | 1.32 | 1.32 | 1.40 | 1.54 | 1.51 | 1.51 |
| Yellow pike, Lakes Michigan and Huron, round, fresh. . . . . | New York | lb | 2.35 | 2.35 | 2.35 | 2.35 | 2.05 | 2.05 |
| PROCESSED, FRESH (fish and shellfish): | | | | | | | | |
| Fillets, haddock, small, skin on, 20-lb tins . . . . . | Boston | lb | 1.32 | 1.62 | 1.85 | 1.85 | 1.45 | 1.92 |
| Shrimp, large (26-30 count), headless, fresh. . . . . | New York | lb | 4.75 | 4.15 | 4.35 | 4.50 | 4.60 | 4.90 |
| Oysters, shucked, standards . . . | Norfolk | gal | 19.50 | 20.00 | 20.50 | 21.00 | 21.00 | 21.25 |
| PROCESSED, FROZEN (fish and shellfish): | | | | | | | | |
| Fillets: Cod, skinless, Canadian, 1-lb package . . . . . | Boston | lb | 1.10 | 1.08 | 1.08 | 1.08 | 1.08 | 1.08 |
| Flounder, skinless, 1-lb package . . . . . | Boston | lb | 1.48 | 1.48 | 1.38 | 1.38 | 1.45 | 1.45 |
| Ocean perch, large, skin on, 1-lb package. . . . . | Boston | lb | 1.00 | 1.00 | 1.00 | 1.05 | 1.03 | 1.10 |
| Shrimp, large (26-30 count), brown, 5-lb package. . . . . | Chicago | lb | 4.40 | 3.52 | 3.85 | 3.95 | 4.50 | 4.40 |
| Shrimp, raw, breaded (15-20 count), 4-lb package . . . . . | Selected areas | lb | 3.91 | 3.76 | 3.71 | 3.71 | 3.71 | 3.71 |
| Fish blocks, cod, raw, 13-1/2 - 16-lb carton . . . . . | Selected areas | lb | 1.08 | 1.04 | 0.99 | 1.00 | 1.04 | 1.10 |
| Fish sticks, cod, precooked, breaded, 1/2 - 1-lb package. . . | Selected areas | lb | 1.52 | 1.52 | 1.52 | 1.52 | 1.52 | 1.55 |
| Fish portions, cod, raw, breaded, 6-lb package . . . . . | Selected areas | lb | 1.33 | 1.33 | 1.33 | 1.33 | 1.24 | 1.28 |
| CANNED FISHERY PRODUCTS: | | | | | | | | |
| Salmon, pink, No. 1 tall (16-oz) 48 cans/case . . . . . | Seattle | case | 86.00 | 86.00 | 86.00 | 81.50 | 81.50 | 81.50 |
| Tuna, light meat, chunk, No. 1/2 (6-1/2-oz) 48 cans/case. . . . | Los Angeles | case | 44.75 | 45.25 | 45.25 | 45.25 | 45.25 | 45.25 |
| Sardines, Maine, keyless, oil, 1/4 drawn (3-3/4-oz) 100 cans/case | New York | case | 38.00 | 38.00 | 38.00 | 42.00 | 42.00 | 42.00 |

Note:--These are average prices for one day (Monday, Tuesday, or Wednesday) during the week in which the 13th of the month occurs. These prices are published as indicators of movement and not necessarily absolute level. Fishery Market News Reports should be referred to for actual prices. (See page 116 for information on these reports, and how they can be obtained.)

Source:--U.S. Department of Labor, Bureau of Labor Statistics.

# PRICES

## WHOLESALE

WHOLESALE PRICE INDEXES FOR EDIBLE FISH AND SHELLFISH, BY MONTHS, 1981

| Group | Jan. | Feb. | Mar. | Apr. | May | June |
|---|---|---|---|---|---|---|
| | - - - - - - - - - Index (1967=100) - - - - - - - - - | | | | | |
| All fish and shellfish (fresh, frozen, and canned) | 373.0 | 371.5 | 382.0 | 387.1 | 386.4 | 386.6 |
| Fresh and frozen fishery products | 409.6 | 414.5 | 393.0 | 399.6 | 398.6 | 398.4 |
| Drawn, dressed, or whole finfish | 424.5 | 417.6 | 433.1 | 438.4 | 453.6 | 460.1 |
| Processed, fresh (fish and shellfish) | 409.7 | 371.8 | 405.2 | 410.0 | 367.9 | 369.2 |
| Processed, frozen (fish and shellfish) | 365.3 | 378.3 | 384.6 | 392.7 | 395.8 | 390.8 |
| Canned fishery products | 365.1 | 365.1 | 365.1 | 365.1 | 365.1 | 371.1 |

| Group | July | Aug. | Sept. | Oct. | Nov. | Dec. |
|---|---|---|---|---|---|---|
| | - - - - - - - - - Index (1967=100) - - - - - - - - - | | | | | |
| All fish and shellfish (fresh, frozen, and canned) | 382.9 | 367.2 | 362.6 | 375.6 | 379.1 | 383.4 |
| Fresh and frozen fishery products | 393.7 | 372.7 | 366.8 | 383.2 | 387.7 | 393.2 |
| Drawn, dressed, or whole finfish | 465.4 | 469.2 | 427.3 | 468.8 | 459.2 | 460.8 |
| Processed, fresh (fish and shellfish) | 368.8 | 340.2 | 359.4 | 369.8 | 365.7 | 397.1 |
| Processed, frozen (fish and shellfish) | 378.2 | 343.4 | 351.0 | 354.7 | 371.2 | 370.5 |
| Canned fishery products | 366.8 | 370.0 | 370.0 | 371.1 | 371.1 | 371.1 |

Source:--U.S. Department of Labor, Bureau of Labor Statistics.

## RETAIL

RETAIL PRICES OF FISHERY PRODUCTS, BY MONTHS, 1981

| ITEM | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEPT. | OCT. | NOV. | DEC. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Dollars per pound | | | | | | | | | | | |
| FRESH | | | | | | | | | | | | |
| Cod fillets | 2.92 | 2.60 | 2.48 | 2.37 | 2.43 | 2.18 | 2.41 | 2.58 | 2.62 | 2.48 | 2.68 | 2.64 |
| Flounder fillets | 3.50 | 3.61 | 3.22 | 3.27 | 2.86 | 2.43 | 3.14 | 2.93 | 2.86 | 3.53 | 2.72 | 2.88 |
| Haddock fillets | 3.73 | 2.95 | 2.89 | 2.91 | 2.28 | 2.35 | 2.67 | 2.38 | 2.99 | 2.63 | 3.25 | 2.78 |
| Ocean perch fillets | 2.42 | 2.41 | 2.97 | 2.59 | 2.16 | 2.49 | 3.03 | 2.10 | 2.12 | 2.56 | 2.26 | 2.12 |
| Sole fillets | 3.51 | 3.24 | 3.40 | 3.21 | 3.35 | 2.87 | 3.24 | 3.35 | 3.62 | 3.47 | 3.39 | 3.49 |
| RAW FROZEN | | | | | | | | | | | | |
| Cod fillets, 1 lb. pkg | 2.08 | 2.06 | 2.20 | 2.20 | 2.15 | 2.18 | 2.22 | 2.23 | 2.16 | 2.18 | 2.22 | 2.28 |
| Flounder fillets, 1 lb. pkg | 2.78 | 2.90 | 2.88 | 2.85 | 2.84 | 2.90 | 2.83 | 2.84 | 2.85 | 2.93 | 2.93 | 2.90 |
| Haddock fillets, 1 lb. pkg | 2.59 | 2.63 | 2.64 | 2.58 | 2.57 | 2.62 | 2.64 | 2.65 | 2.59 | 2.59 | 2.60 | 2.67 |
| Halibut steaks | 5.54 | 5.12 | 4.70 | 4.71 | 4.95 | 5.18 | 4.59 | 4.33 | 4.41 | 4.26 | 3.98 | 3.91 |
| Ocean perch fillets, 1 lb. pkg | 2.17 | 2.18 | 2.08 | 2.14 | 2.19 | 2.16 | 2.14 | 2.13 | 2.09 | 2.15 | 2.25 | 2.24 |
| Turbot fillets, 1 lb. pkg | 1.87 | 1.94 | 1.91 | 1.93 | 2.09 | 2.06 | 2.06 | 2.05 | 2.08 | 2.05 | 2.15 | 2.24 |
| King crab meat, 6 oz. pkg | 14.84 | 14.85 | 14.75 | 14.53 | 14.40 | 14.27 | 14.07 | 14.56 | 14.45 | 14.81 | 14.90 | 14.90 |
| BREADED, COOKED | | | | | | | | | | | | |
| Fish sticks, breaded, 14 oz. pkg | 2.14 | 2.13 | 2.14 | 2.17 | 2.30 | 2.39 | 2.35 | 2.42 | 2.39 | 2.33 | 2.42 | 2.42 |
| Fish portions, breaded, 14 oz. pkg | 2.14 | 2.07 | 2.12 | 2.10 | 2.15 | 2.27 | 2.23 | 2.24 | 2.25 | 2.26 | 2.40 | 2.41 |
| Shrimp breaded, fantail | 4.75 | 4.64 | 4.60 | 5.10 | 5.28 | 4.97 | 5.17 | 5.12 | 4.97 | 5.11 | 5.23 | 5.03 |
| CANNED | | | | | | | | | | | | |
| Tuna, solid, white, in water, 7 oz. can | 3.44 | 3.47 | 3.44 | 3.46 | 3.38 | 3.38 | 3.41 | 3.47 | 3.46 | 3.50 | 3.48 | 3.45 |
| Tuna, chunk, light, in oil, 6–1/2 oz. can | 2.61 | 2.56 | 2.50 | 2.49 | 2.34 | 2.39 | 2.26 | 2.40 | 2.32 | 2.36 | 2.24 | 2.41 |
| Salmon, pink, 1 lb. can | 2.36 | 2.42 | 2.49 | 2.47 | 2.46 | 2.47 | 2.46 | 2.44 | 2.45 | 2.46 | 2.51 | 2.49 |
| Salmon, red, 1 lb. can | 3.28 | 3.32 | 3.40 | 3.30 | 3.40 | 3.40 | 3.40 | 3.46 | 3.43 | 3.48 | 3.47 | 3.44 |
| Sardines, Maine, single layer, soybean oil, 3–3/4 oz. can | 2.42 | 2.36 | 2.43 | 2.36 | 2.39 | 2.35 | 2.36 | 2.33 | 2.35 | 2.39 | 2.40 | 2.31 |
| Sardines, Norway, single layer, soybean oil, 3–3/4 oz. can | 4.03 | 4.04 | 4.02 | 3.98 | 4.06 | 4.11 | 4.12 | 4.08 | 3.99 | 4.06 | 4.10 | 4.11 |
| Shrimp, small, 4–1/2 oz. can | 7.48 | 7.20 | 7.56 | 7.42 | 7.57 | 7.43 | 7.72 | 7.49 | 7.44 | 7.42 | 6.98 | 7.43 |

INDEX OF RETAIL PRICES, BY MONTHS, 1981
1977 = 100

| ITEM | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEPT. | OCT. | NOV. | DEC. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Fish | 146.0 | 143.6 | 145.3 | 146.0 | 147.0 | 149.2 | 146.4 | 147.3 | 147.8 | 147.9 | 150.3 | 149.8 |
| Meat | 154.4 | 153.7 | 151.4 | 147.5 | 148.7 | 148.1 | 149.7 | 150.8 | 151.6 | 152.4 | 150.8 | 149.0 |
| Poultry | 133.3 | 131.3 | 133.0 | 129.7 | 128.3 | 132.7 | 136.7 | 136.3 | 132.3 | 130.3 | 125.3 | 120.0 |

Note:--The retail prices and indexes are based on an informal monthly survey of retail prices of fish and other items in three retail grocery stores in each of ten cities. All items in each index are given equal weight. The indexes are not seasonally adjusted.

Source:--Operation Price Watch, National Marine Fisheries Service, Fisheries Development Division, Washington, D.C. 20235, Phone: (202) 634-7385.

VALUE ADDED, MARGINS, AND CONSUMER EXPENDITURES FOR EDIBLE FISHERY PRODUCTS IN THE UNITED STATES, 1980 AND 1981

| Year and item | Domestic | | Imports (1) | | Total margin | Value-added rate (2) | Value added (3) (contribution to the economy as GNP) | |
|---|---|---|---|---|---|---|---|---|
| | Sales | Margin | Sales | Margin | | | Total | Percentage of total |
| | Million dollars | | | | | Percent | Million dollars | Percent |
| 1980 (Revised): | | | | | | | | |
| Domestic landings | 2,237 | - | - | - | - | - | - | - |
| Industrial fish (4) | 145 | - | - | - | - | - | - | - |
| Edible fish (harvesting bill) | 2,092 | - | - | - | 2,092 | 70.00 | 1,464 | 21.43 |
| Exports (unprocessed) (5) | 201 | - | - | - | - | - | - | - |
| Total domestic sales | 1,891 | (1,891) | - | - | - | - | - | - |
| To be processed | 1,296 | - | - | - | - | - | - | - |
| Unprocessed to wholesaler | 595 | - | - | - | - | - | - | - |
| Imports | - | - | 2,686 | (2,686) | - | - | - | - |
| To be processed | - | - | 741 | - | - | - | - | - |
| To trade dealers | - | - | 1,945 | - | - | - | - | - |
| Processing level (6) | 2,770 | 1,474 | 1,269 | 527 | 2,001 | 63.70 | 1,275 | 18.67 |
| Exports (processed) (7) | 703 | - | - | - | - | - | - | - |
| Domestic sales | 2,067 | - | - | - | - | - | - | - |
| Wholesale level (8) | 3,220 | 558 | 3,759 | 545 | 1,103 | 65.25 | 720 | 10.54 |
| Channels to consumers: | | | | | | | | |
| Retail stores (9) | 1,646 | 368 | 2,469 | 552 | 920 | 82.60 | 760 | 11.13 |
| Public eating places (10) | 3,918 | 2,137 | 3,556 | 1,940 | 4,077 | 60.80 | 2,479 | 36.30 |
| Institutions (11) | 266 | 105 | 372 | 147 | 252 | 52.30 | 132 | 1.93 |
| Consumer expenditures: (12) | | | | | | | | |
| Sales through three channels | 5,830 | - | 6,397 | - | - | - | - | - |
| Landings (or imports) plus margins at five levels minus exports | - | 5,830 | - | 6,397 | - | - | - | - |
| Fisherman's share of a consumer's dollar for fish when exports are included | (32.0%) | - | - | - | - | - | - | - |
| Total consumer expenditures | (47.7%) | 12,227 | | (52.3%) | - | - | - | - |
| Total value added (contribution to the economy as GNP) | - | - | - | - | - | - | 6,830 | 100.00 |
| 1981 (Preliminary): | | | | | | | | |
| Domestic landings | 2,388 | - | - | - | - | - | - | - |
| Industrial fish (4) | 111 | - | - | - | - | - | - | - |
| Edible fish (harvesting bill) | 2,277 | - | - | - | 2,277 | 70.50 | 1,605 | 21.26 |
| Exports (unprocessed) (5) | 327 | - | - | - | - | - | - | - |
| Total domestic sales | 1,950 | (1,950) | - | - | - | - | - | - |
| To be processed | 1,441 | - | - | - | - | - | - | - |
| Unprocessed to wholesaler | 509 | - | - | - | - | - | - | - |
| Imports | - | - | 3,034 | (3,034) | - | - | - | - |
| To be processed | - | - | 806 | - | - | - | - | - |
| To trade dealers | - | - | 2,228 | - | - | - | - | - |
| Processing level (6) | 3,083 | 1,643 | 1,391 | 585 | 2,228 | 64.20 | 1,430 | 18.94 |
| Exports (processed) (7) | 746 | - | - | - | - | - | - | - |
| Domestic sales | 2,337 | - | - | - | - | - | - | - |
| Wholesale level (8) | 3,444 | 598 | 4,239 | 621 | 1,219 | 66.05 | 805 | 10.66 |
| Channels to consumers: | | | | | | | | |
| Retail stores (9) | 1,762 | 394 | 2,785 | 623 | 1,017 | 83.40 | 848 | 11.23 |
| Public eating places (10) | 4,190 | 2,285 | 4,010 | 2,187 | 4,472 | 60.75 | 2,717 | 35.99 |
| Institutions (11) | 284 | 112 | 420 | 165 | 277 | 52.20 | 145 | 1.92 |
| Consumer expenditures: (12) | | | | | | | | |
| Sales through three channels | 6,236 | - | 7,215 | - | - | - | - | - |
| Landings (or imports) plus margins at five levels minus exports | - | 6,236 | - | 7,215 | - | - | - | - |
| Fisherman's share of a consumer's dollar for fish when exports are included | (32.6%) | - | - | - | - | - | - | - |
| Total consumer expenditures | (46.4%) | 13,451 | | (53.6%) | - | - | - | - |
| Total value added (contribution to the economy as GNP) | - | - | - | - | - | - | 7,550 | 100.00 |

See footnotes on next page.

(Continued)

VALUE ADDED, MARGINS, AND CONSUMER EXPENDITURES FOR EDIBLE FISHERY PRODUCTS IN THE UNITED STATES, 1980 AND 1981 - Continued

FOOTNOTES

(1) For imported fishery products, the margin and sales values at different levels are calculated in the same manner as they are done for the domestic production column, except that the markup rate at the processor level is 0.7111 in1980 and 0.7253 in 1981; at the wholesale level the markup rate is 0.1696 in 1980 and 0.1716 in 1981. In 1980 and 1981 the distribution rate for imported products is 51 percent at retail stores, 43 percent at eating places, and 6 percent at institutions.

(2) Value-added rate at each level is the weighted average of all fishery products, expressed as a percentage of its corresponding margin.

(3) Multiply each item under the total margin column by its corresponding value under the value-added rate column to get the actual value added as contribution to the economy from all production and distribution levels of the U.S. fishing industry in the food fish sector.

(4) Value of landings of fish for industrial purposes is deducted.

(5) Exports of unprocessed fish are deducted from the value of the landings after being converted to an equivalent value for domestic landings.

(6) Processor's purchase value (or domestic sales at the harvesting level) times the processor's markup rate (weighted average for all fishery products is 1.1378 in 1980 and 1.1401 in 1981) equals the margin at the processor's level.

(7) Exports of processed products are deducted at their export value from this level.

(8) Wholesale purchase value (processors domestic sales and unprocessed products from domestic landings) times the weighted average of markup rates (0.2095 for 1980 and 0.2100 for 1981).

(9) In 1980 and 1981, 39.7 percent of wholesale sales value of domestic products is distributed to retailers. This value times the weighted average of markup rates (0.2878 in 1980 and 0.2882 in 1981) at the retail level equals the margin at retail.

(10) In 1980 and 1981, 55.3 percent of wholesale sales value of domestic products is distributed to public eating places. At a markup rate of 1.200 for 1980 and 1981, the margin and sales values at this level are obtained.

(11) For domestic products, 5 percent of wholesale sales value is distributed to institutions with a markup rate of 0.6520 in 1980 and 0.6510 in 1981; the margin and sales values at this level are then calculated.

(12) Consumer expenditures are the total sales value at retail stores, public eating places, and institutions. This total is also the sum of margins of five marketing levels and the landings value after export value is deducted.

Note:--The concept and derivation of value-added, markup rates, and consumer expenditures for edible fishery products are discussed in two comprehensive reports: Cost Analyses of U.S. Fish Price Margins, 1972-77, at Different Production and Distribution Levels and Marketing Bill and Its Cost Components of U.S. Food Fish Products, both prepared by Erwin S. Penn (202-634-7111) of the Economic Analysis Staff, Office of Policy and Planning, Fx53.

A detailed discussion of the procedures for calculating the results of this table appeared in a paper Value Added, Margins, and Consumer Expenditures for Edible Fishery Products in the United States 1976-78, by Erwin S. Penn and Wenona J. Crews, published in the December 1979 issue of the Marine Fisheries Review, NMFS, NOAA.

# PER CAPITA USE

Per capita use of commercial fish and shellfish is based on the supply of fishery products, both edible and nonedible (industrial), on a round-weight equivalent basis, without considering beginning or ending stocks, defense purchases, or exports (see page 67).

Per capita use figures are not comparable with per capita consumption data (see page 89). Per capita consumption figures represent edible (for human use) meat-weight consumption rather than round-weight consumption. In addition, per capita consumption includes allowances for beginning and ending stocks, defense purchases, and exports, whereas the use does not include such allowances.

Per capita use is derived by using total population including U.S. Armed Forces overseas. The per capita consumption is derived by using civilian resident population.

U.S. ANNUAL PER CAPITA USE OF COMMERCIAL FISH AND SHELLFISH, 1950-81

| Year | Total population including armed forces overseas July 1 | Total U.S. supply (1) | Per capita utilization | | |
|---|---|---|---|---|---|
| | | | Commercial landings | Imports | Total |
| | Million persons | Million pounds | Pounds | | |
| 1950 | 152.3 | 6,547 | 32.2 | 10.8 | 43.0 |
| 1951 | 154.9 | 6,757 | 28.6 | 15.0 | 43.6 |
| 1952 | 157.6 | 7,636 | 28.1 | 20.4 | 48.5 |
| 1953 | 160.2 | 7,015 | 28.0 | 15.8 | 43.8 |
| 1954 | 163.0 | 7,593 | 29.2 | 17.4 | 46.6 |
| 1955 | 165.9 | 7,121 | 29.0 | 13.9 | 42.9 |
| 1956 | 168.9 | 7,569 | 31.2 | 13.6 | 44.8 |
| 1957 | 172.0 | 7,164 | 27.9 | 13.8 | 41.7 |
| 1958 | 174.9 | 7,526 | 27.1 | 15.9 | 43.0 |
| 1959 | 177.8 | 8,460 | 28.8 | 18.8 | 47.6 |
| 1960 | 180.7 | 8,223 | 27.3 | 18.2 | 45.5 |
| 1961 | 183.7 | 9,570 | 28.2 | 23.9 | 52.1 |
| 1962 | 186.5 | 10,408 | 28.7 | 27.1 | 55.8 |
| 1963 | 189.2 | 11,434 | 25.6 | 34.8 | 60.4 |
| 1964 | 191.9 | 12,031 | 23.7 | 39.0 | 62.7 |
| 1965 | 194.3 | 10,535 | 24.6 | 29.6 | 54.2 |
| 1966 | 196.6 | 12,469 | 22.2 | 41.2 | 63.4 |
| 1967 | 198.7 | 13,991 | 20.4 | 50.0 | 70.4 |
| 1968 | 200.7 | 17,381 | 20.7 | 65.9 | 86.6 |
| 1969 | 202.7 | 11,847 | 21.4 | 37.0 | 58.4 |
| 1970 | 205.1 | 11,474 | 24.0 | 31.9 | 55.9 |
| 1971 | 207.7 | 11,804 | 24.1 | 32.7 | 56.8 |
| 1972 | 209.9 | 13,849 | 22.9 | 43.1 | 66.0 |
| 1973 | 211.9 | 10,378 | 22.9 | 26.1 | 49.0 |
| 1974 | 213.9 | 9,875 | 23.2 | 23.0 | 46.2 |
| 1975 | 216.0 | 10,164 | 22.6 | 24.5 | 47.1 |
| 1976 | 218.0 | 11,593 | 24.7 | 28.5 | 53.2 |
| 1977 (2) | 220.2 | 10,579 | 23.6 | 24.4 | 48.0 |
| 1978 (2) | 222.6 | 11,509 | 27.1 | 24.6 | 51.7 |
| 1979 (2) | 225.1 | 11,831 | 27.9 | 24.7 | 52.6 |
| 1980 (2) | 227.7 | 11,357 | 28.5 | 21.4 | 49.9 |
| 1981 (2) | 229.8 | 11,353 | 26.0 | 23.4 | 49.4 |

(1) Data include U.S. commercial landings and imports of both edible and nonedible (industrial) fishery products on a round-weight basis. "Total supply" is not adjusted for beginning and ending stocks, defense purchases, or exports.

(2) Domestic landings data used in calculating these data are preliminary.

Note:--From 1970 through 1980, population and per capita utilization data were revised to reflect the results of the 1980 census.

Annual per capita consumption of seafood products represents the pounds of edible meat consumed from domestically-caught and imported fish and shellfish adjusted for beginning and ending inventories, exports, and military purchases, divided by the civilian population of the United States as of July 1 of each year.

U.S. ANNUAL PER CAPITA CONSUMPTION OF COMMERCIAL FISH AND SHELLFISH, 1909-81

| Year | Civilian resident population July 1 (1) | Per capita consumption | | | |
|---|---|---|---|---|---|
| | | Fresh and frozen (2) | Canned (3) | Cured (4) | Total |
| | Million persons | Pounds, edible meat | | | |
| 1909 (5) | 90.5 | 4.3 | 2.7 | *4.0 | 11.0 |
| 1910 | 92.4 | 4.5 | 2.8 | 3.9 | 11.2 |
| 1911 | 93.9 | 4.8 | 2.8 | 3.7 | 11.3 |
| 1912 | 95.3 | 5.0 | 2.9 | 3.4 | 11.3 |
| 1913 | 97.2 | 5.3 | 2.9 | 3.3 | 11.5 |
| 1914 | 99.1 | 5.6 | 3.0 | 3.1 | 11.7 |
| 1915 | 100.5 | 5.8 | 2.4 | 3.0 | 11.2 |
| 1916 | 102.0 | 6.0 | 2.2 | 2.8 | 11.0 |
| 1917 | 103.3 | 6.2 | 2.0 | 2.7 | 10.9 |
| 1918 | 103.2 | 6.4 | 2.0 | 2.5 | 10.9 |
| 1919 | 104.5 | 6.4 | 2.8 | 2.4 | 11.6 |
| 1920 | 106.5 | 6.3 | 3.2 | 2.3 | 11.8 |
| 1921 | 108.5 | 6.2 | 2.2 | 2.1 | 10.5 |
| 1922 | 110.0 | 6.1 | 3.2 | 2.0 | 11.3 |
| 1923 | 111.9 | 6.0 | 2.9 | 1.8 | 10.7 |
| 1924 | 114.1 | 6.1 | 3.2 | 1.7 | 11.0 |
| 1925 | 115.8 | 6.3 | 3.2 | 1.6 | 11.1 |
| 1926 | 117.4 | 6.6 | 3.4 | 1.4 | 11.4 |
| 1927 | 119.0 | 7.0 | 3.9 | 1.3 | 12.2 |
| 1928 | 120.5 | 7.1 | 3.9 | 1.1 | 12.1 |
| 1929 | 121.8 | 6.9 | 3.9 | 1.1 | 11.9 |
| 1930 | 122.9 | 5.8 | 3.4 | 1.0 | 10.2 |
| 1931 | 123.9 | 4.9 | 3.2 | .7 | 8.8 |
| 1932 | 124.7 | 4.3 | 3.4 | .7 | 8.4 |
| 1933 | 125.4 | 4.2 | 3.9 | .6 | 8.7 |
| 1934 | 126.2 | 4.3 | 4.2 | .7 | 9.2 |
| 1935 | 127.1 | 5.1 | 4.7 | .7 | 10.5 |
| 1936 | 127.9 | 5.2 | *5.8 | .7 | 11.7 |
| 1937 | 128.6 | 5.6 | 5.3 | .9 | 11.8 |
| 1938 | 129.6 | 5.2 | 4.8 | .8 | 10.8 |
| 1939 | 130.7 | 5.3 | 4.7 | .7 | 10.7 |
| 1940 | 132.1 | 5.7 | 4.6 | .7 | 11.0 |
| 1941 | 132.1 | 6.3 | 4.2 | .7 | 11.2 |
| 1942 | 131.4 | 5.2 | 2.9 | .6 | 8.7 |
| 1943 | 128.0 | 5.5 | 1.8 | .6 | 7.9 |
| 1944 | 127.2 | 5.5 | 2.6 | .6 | 8.7 |
| 1945 | 128.1 | 6.6 | 2.6 | .7 | 9.9 |
| 1946 | 138.9 | 5.9 | 4.2 | .7 | 10.8 |
| 1947 | 143.1 | 5.8 | 3.8 | .7 | 10.3 |
| 1948 | 145.7 | 6.0 | 4.4 | .7 | 11.1 |
| 1949 | 148.2 | 5.8 | 4.5 | .6 | 10.9 |
| 1950 | 150.8 | 6.3 | 4.9 | .6 | 11.8 |
| 1951 | 151.6 | 6.3 | 4.3 | .6 | 11.2 |
| 1952 | 153.9 | 6.2 | 4.3 | .7 | 11.2 |
| 1953 | 156.6 | 6.4 | 4.3 | .7 | 11.4 |
| 1954 | 159.7 | 6.2 | 4.3 | .7 | 11.2 |
| 1955 | 163.0 | 5.9 | 3.9 | .7 | 10.5 |
| 1956 | 166.1 | 5.7 | 4.0 | .7 | 10.4 |
| 1957 | 169.1 | 5.5 | 4.0 | .7 | 10.2 |
| 1958 | 172.2 | 5.7 | 4.3 | .6 | 10.6 |
| 1959 | 175.3 | 5.9 | 4.4 | .6 | 10.9 |

See footnotes at end of table.

(Continued)

U.S. ANNUAL PER CAPITA CONSUMPTION OF COMMERCIAL FISH AND SHELLFISH, 1909-81 - Continued

| Year | Civilian resident population July 1 (1) | Per capita consumption | | | |
|---|---|---|---|---|---|
| | | Fresh and frozen (2) | Canned (3) | Cured (4) | Total |
| | Million persons | Pounds, edible meat | | | |
| 1960 | 178.1 | 5.7 | 4.0 | 0.6 | 10.3 |
| 1961 | 181.1 | 5.9 | 4.3 | .5 | 10.7 |
| 1962 | 183.7 | 5.8 | 4.3 | .5 | 10.6 |
| 1963 | 186.5 | 5.8 | 4.4 | .5 | 10.7 |
| 1964 | 189.1 | 5.9 | 4.1 | .5 | 10.5 |
| 1965 | 191.6 | 6.0 | 4.3 | .5 | 10.8 |
| 1966 | 193.4 | 6.1 | 4.3 | .5 | 10.9 |
| 1967 | 195.3 | 5.8 | 4.3 | .5 | 10.6 |
| 1968 | 197.1 | 6.2 | 4.3 | .5 | 11.0 |
| 1969 | 199.1 | 6.6 | 4.2 | .4 | 11.2 |
| 1970 | 201.9 | 6.9 | 4.5 | .4 | 11.8 |
| 1971 | 204.9 | 6.7 | 4.3 | .5 | 11.5 |
| 1972 | 207.5 | 7.1 | 4.9 | .5 | 12.5 |
| 1973 | 209.6 | 7.4 | 5.0 | .4 | 12.8 |
| 1974 | 211.6 | 6.9 | 4.7 | .5 | 12.1 |
| 1975 | 213.8 | 7.5 | 4.3 | .4 | 12.2 |
| 1976 | 215.9 | *8.2 | 4.2 | .5 | 12.9 |
| 1977 (6) | 218.1 | 7.7 | 4.6 | .4 | 12.7 |
| 1978 (6) | 220.5 | 8.1 | 5.0 | .3 | *13.4 |
| 1979 (6) | 223.0 | 7.8 | 4.8 | .4 | 13.0 |
| 1980 (6) | 225.6 | 8.0 | 4.5 | .3 | 12.8 |
| 1981 (6) | 227.7 | 7.8 | 4.8 | .4 | 13.0 |

(1) Resident population for 1909 to 1929 and civilian resident population for 1930 to date.
(2) Fresh and frozen fish consumption from 1910 to 1928 is estimated. Beginning in 1973, data include consumption of artificially cultivated catfish.
(3) Canned fish consumption for 1910 to 1920 is estimated. Beginning in 1921, it is based on production reports, packer stocks, and foreign trade statistics for individual years.
(4) Cured fish consumption for 1910 to 1928 is estimated.
(5) Data for 1909 estimate based on the 1908 census and foreign trade data.
(6) Domestic landings data used in calculating these data are preliminary.

*Record.

Note:--These consumption figures refer only to consumption of fish and shellfish entering commercial channels, and they do not include data on consumption of recreationally caught fish and shellfish which since 1970 is estimated to be between 3 and 4 pounds (edible meat) per person annually. From 1970 through 1980, data were revised to reflect the results of the 1980 census.

U.S. ANNUAL PER CAPITA CONSUMPTION OF CANNED FISHERY PRODUCTS, 1960-81

| Year | Salmon | Sardines | Tuna | Shellfish | Other | Total |
|---|---|---|---|---|---|---|
| | | | Pounds | | | |
| 1960. . . . | 0.7 | 0.4 | 2.0 | 0.4 | 0.5 | 4.0 |
| 1961. . . . | .8 | .5 | 2.1 | .4 | .5 | 4.3 |
| 1962. . . . | .9 | .3 | 2.1 | .4 | .6 | 4.3 |
| 1963. . . . | .9 | .4 | 2.0 | .5 | .6 | 4.4 |
| 1964. . . . | .7 | .3 | 2.0 | .5 | .6 | 4.1 |
| 1965. . . . | .9 | .3 | 2.3 | .5 | .3 | 4.3 |
| 1966. . . . | .8 | .4 | 2.3 | .4 | .4 | 4.3 |
| 1967. . . . | .7 | .4 | 2.4 | .5 | .3 | 4.3 |
| 1968. . . . | .7 | .4 | 2.4 | .5 | .3 | 4.3 |
| 1969. . . . | .7 | .4 | 2.4 | .5 | .2 | 4.2 |
| 1970. . . . | .7 | .4 | 2.5 | .5 | .4 | 4.5 |
| 1971. . . . | .7 | .4 | 2.4 | .5 | .3 | 4.3 |
| 1972. . . . | .7 | .4 | 2.9 | .5 | .4 | 4.9 |
| 1973. . . . | .4 | .5 | 3.1 | .5 | .5 | 5.0 |
| 1974. . . . | .3 | .4 | 3.1 | .5 | .4 | 4.7 |
| 1975. . . . | .3 | .2 | 2.9 | .5 | .4 | 4.3 |
| 1976. . . . | .3 | .3 | 2.8 | .4 | .4 | 4.2 |
| 1977 (1). . | .5 | .3 | 2.8 | .6 | .4 | 4.6 |
| 1978 (1). . | .6 | .3 | 3.3 | .5 | .3 | 5.0 |
| 1979 (1). . | .5 | .3 | 3.2 | .5 | .3 | 4.8 |
| 1980 (1). . | .5 | .3 | 2.9 | .5 | .3 | 4.5 |
| 1981 (1). . | .5 | .4 | 3.1 | .5 | .3 | 4.8 |

(1) Preliminary. Note:--From 1970 through 1980, data were revised to reflect the results of the 1980 census.

U.S. ANNUAL PER CAPITA CONSUMPTION OF CERTAIN FISHERY ITEMS, 1960-81

| Year | Fillets and steaks (1) | Sticks and portions | Shrimp, all preparations |
|---|---|---|---|
| | | Pounds (2) | |
| 1960. . . . . | 1.64 | 0.63 | 1.08 |
| 1961. . . . . | 1.67 | .71 | 1.01 |
| 1962. . . . . | 1.77 | .82 | 1.02 |
| 1963. . . . . | 1.60 | .92 | 1.17 |
| 1964. . . . . | 1.62 | .98 | 1.16 |
| 1965. . . . . | 1.68 | 1.12 | 1.24 |
| 1966. . . . . | 1.74 | 1.14 | 1.21 |
| 1967. . . . . | 1.64 | 1.21 | 1.29 |
| 1968. . . . . | 1.86 | 1.32 | 1.37 |
| 1969. . . . . | 2.01 | 1.63 | 1.31 |
| 1970. . . . . | 2.17 | 1.73 | 1.44 |
| 1971. . . . . | 2.04 | 1.63 | 1.39 |
| 1972. . . . . | 2.27 | 1.78 | 1.43 |
| 1973. . . . . | 2.52 | 1.98 | 1.35 |
| 1974. . . . . | 2.12 | 1.82 | 1.50 |
| 1975. . . . . | 2.39 | 1.78 | 1.40 |
| 1976 . . . . . | 2.52 | 2.04 | 1.48 |
| 1977 (3). . . . . | 2.52 | 2.02 | *1.56 |
| 1978 (3). . . . . | 2.67 | 2.15 | 1.48 |
| 1979 (3). . . . . | 2.66 | *2.15 | 1.32 |
| 1980 (3). . . . . | 2.61 | 1.92 | 1.43 |
| 1981 (3). . . . . | *2.73 | 1.73 | 1.45 |

(1) Data include groundfish and other species. Data do not include blocks, but fillets could be made into blocks from which sticks and portions could be produced.
(2) Product weight of fillets and steaks and sticks and portions, edible (meat) weight of shrimp.
(3) Domestic landings data used in calculating these data are preliminary.

*Record.

Note:--From 1970 through 1980, data were revised to reflect the results of the 1980 census.

ANNUAL PER CAPITA CONSUMPTION OF FISH AND SHELLFISH FOR HUMAN FOOD, BY REGION AND COUNTRY, 1975-77 AVERAGE

| Region and country | Estimated live weight equivalent | |
|---|---|---|
| | Kilograms | Pounds |
| North America: | | |
| Canada | 18.2 | 40.1 |
| United States | 15.9 | 35.1 |
| Latin America: | | |
| Argentina | 4.1 | 9.0 |
| Bolivia | 1.8 | 4.0 |
| Brazil | 6.9 | 15.2 |
| Chile | 15.8 | 34.8 |
| Colombia | 3.4 | 7.5 |
| Costa Rica | 4.5 | 9.9 |
| Cuba | 20.9 | 46.1 |
| Dominican Republic | 6.3 | 13.9 |
| Ecuador | 10.4 | 22.9 |
| El Salvador | 2.2 | 4.8 |
| Guatemala | .7 | 1.5 |
| Guyana | 20.9 | 46.1 |
| Haiti | 1.6 | 3.5 |
| Honduras | 1.1 | 2.4 |
| Jamaica | 24.0 | 52.9 |
| Mexico | 4.9 | 10.8 |
| Nicaragua | 4.3 | 9.5 |
| Panama | 9.7 | 21.4 |
| Paraguay | 1.0 | 2.2 |
| Peru | 17.2 | 37.9 |
| Surinam | 22.0 | 48.5 |
| Trinidad and Tobago | 10.1 | 22.3 |
| Uruguay | 5.0 | 11.0 |
| Venezuela | 10.2 | 22.5 |
| Europe: | | |
| Albania | 1.8 | 4.0 |
| Austria | 7.8 | 17.2 |
| Belgium and Luxembourg | 18.5 | 40.8 |
| Bulgaria | 12.0 | 26.5 |
| Czechoslovakia | 7.9 | 17.4 |
| Denmark | 35.1 | 77.4 |
| Fed. Republic of Germany | 10.7 | 23.6 |
| Finland | 26.1 | 57.5 |
| France | 22.2 | 48.9 |
| German Democratic Rep. | 18.6 | 41.0 |
| Greece | 15.8 | 34.8 |
| Hungary | 5.0 | 11.0 |
| Iceland | 66.8 | 147.3 |
| Ireland | 14.2 | 31.3 |
| Italy | 12.4 | 27.3 |
| Malta | 13.2 | 29.1 |
| Netherlands | 13.2 | 29.1 |
| Norway | 47.0 | 103.6 |
| Europe - Continued: | | |
| Poland | 20.5 | 45.2 |
| Portugal | 38.6 | 85.1 |
| Romania | 5.7 | 12.6 |
| Spain | 35.3 | 77.8 |
| Sweden | 32.5 | 71.6 |
| Switzerland | 10.4 | 22.9 |
| United Kingdom | 17.3 | 38.1 |
| Yugoslavia | 2.9 | 6.4 |
| USSR | 28.7 | 63.3 |
| Near East: | | |
| Afghanistan | .1 | .2 |
| Cyprus | 6.5 | 14.3 |
| Egypt | 4.2 | 9.3 |
| Iran | .5 | 1.1 |
| Iraq | 2.8 | 6.2 |
| Israel | 11.1 | 24.5 |
| Jordan | 2.1 | 4.6 |
| Lebanon | 3.3 | 7.3 |
| Libya | 7.3 | 16.1 |
| Saudi Arabia | 5.2 | 11.5 |
| Sudan | 1.4 | 3.1 |
| Syria | 1.4 | 3.1 |
| Turkey | 4.4 | 9.7 |
| Yemen Arab Republic | 3.8 | 8.4 |
| Yemen (Aden) | 12.4 | 27.3 |
| Far East: | | |
| Bangladesh | 10.4 | 22.9 |
| Burma | 13.0 | 28.7 |
| Cambodia | 10.0 | 22.0 |
| China | 5.9 | 13.0 |
| Hong Kong | 50.5 | 111.3 |
| India | 3.2 | 7.0 |
| Indonesia | 10.7 | 23.6 |
| Japan | 67.4 | 148.6 |
| Laos | 6.2 | 13.7 |
| Malaysia | 34.7 | 76.5 |
| Mongolia | .4 | .9 |
| Nepal | .2 | .4 |
| North Korea | 35.6 | 78.5 |
| Pakistan | 1.6 | 3.5 |
| Philippines | 33.1 | 73.0 |
| Republic of Korea | 47.3 | 104.3 |
| Singapore | 42.5 | 93.7 |
| Sri Lanka (Ceylon) | 11.3 | 24.9 |
| Thailand | 22.9 | 50.5 |
| Vietnam | 21.8 | 48.1 |

See note at end of table.

(Continued)

ANNUAL PER CAPITA CONSUMPTION OF FISH AND SHELLFISH FOR HUMAN FOOD, BY REGION AND COUNTRY, 1975-77 AVERAGE - Continued

| Region and country | Estimated live weight equivalent | |
|---|---|---|
| | Kilograms | Pounds |
| Africa: | | |
| Algeria | 2.2 | 4.8 |
| Angola | 6.7 | 14.8 |
| Benin | 11.4 | 25.1 |
| Botswana | 1.9 | 4.2 |
| Burundi | 4.6 | 10.1 |
| Cameroon | 10.4 | 22.9 |
| Central African Republic | 5.8 | 12.8 |
| Chad | 14.7 | 32.4 |
| Congo (Brazzaville) | 24.9 | 54.9 |
| Ethiopia | .6 | 1.3 |
| Gabon | 20.3 | 44.8 |
| Gambia | 13.6 | 30.0 |
| Ghana | 27.6 | 60.8 |
| Guinea | 4.7 | 10.4 |
| Ivory Coast | 20.7 | 45.6 |
| Kenya | 2.6 | 5.7 |
| Liberia | 20.8 | 45.9 |
| Madagascar | 6.4 | 14.1 |
| Malawi | 12.7 | 28.0 |
| Mali | 10.6 | 23.4 |
| Mauritania | 21.0 | 46.3 |
| Mauritius | 15.7 | 34.6 |
| Morocco | 4.4 | 9.7 |
| Mozambique | 1.8 | 4.0 |
| Niger | .9 | 2.0 |
| Nigeria | 10.6 | 23.4 |
| Republic of South Africa | 7.0 | 15.4 |
| Rhodesia | 2.8 | 6.2 |
| Rwanda | .3 | .7 |
| Senegal | 40.5 | 89.3 |
| Sierra Leone | 26.8 | 59.1 |
| Somalia | 1.2 | 2.6 |
| Tanzania | 15.4 | 33.9 |
| Togo | 11.5 | 25.4 |
| Tunisia | 5.5 | 12.1 |
| Uganda | 14.8 | 32.6 |
| Upper Volta | 1.2 | 2.6 |
| Zaire | 6.2 | 13.7 |
| Zambia | 12.3 | 27.1 |
| Oceania: | | |
| Australia | 14.6 | 32.2 |
| New Zealand | 16.9 | 37.3 |
| Papua New Guinea | 16.5 | 36.4 |
| World | 12.3 | 27.1 |

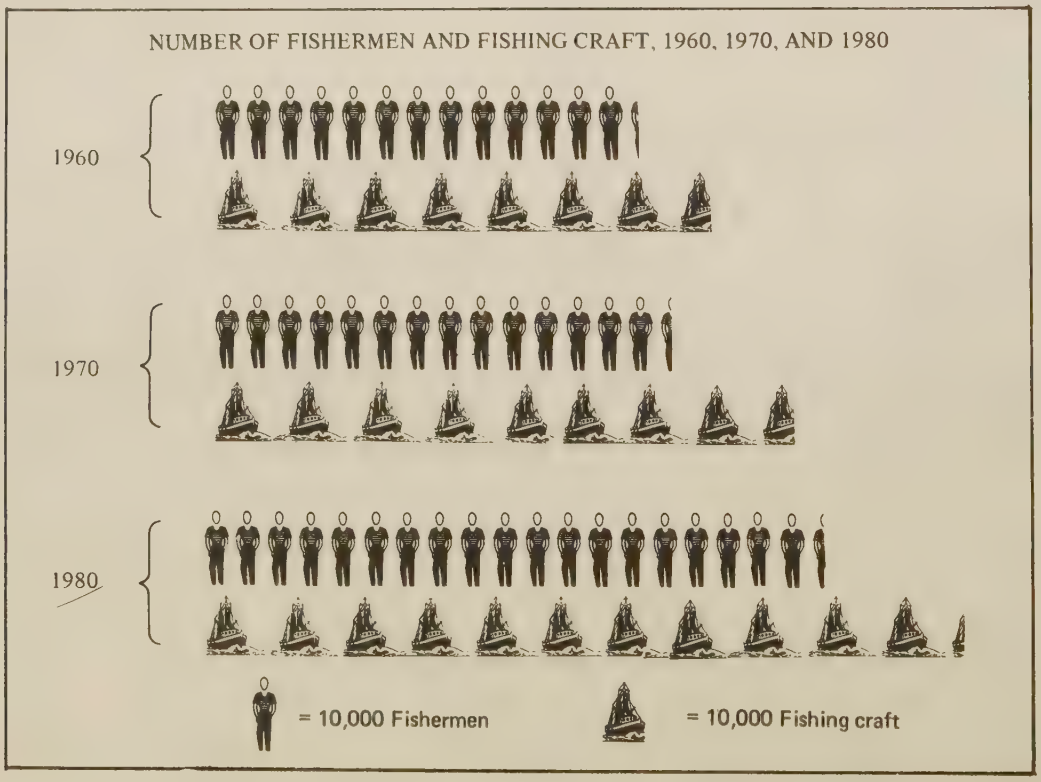
Note:--Data for most countries are tentative. Aquatic plants are included where applicable.

Source:--Food and Agriculture Organization of the United Nations (FAO), Rome.

FISHERY EMPLOYMENT, CRAFT, AND ESTABLISHMENTS, VARIOUS YEARS, 1955-80

| Item | 1955 | 1960 | 1965 | 1970 | 1976 | 1980(1) |
|---|---|---|---|---|---|---|
| | Number | | | | | |
| Persons employed: | | | | | | |
| Fishermen | 144,359 | 130,431 | 128,565 | 140,538 | 173,610 | 193,000 |
| Processing and wholesaling (2) | 97,825 | 93,625 | 86,864 | 86,813 | 93,609 | 103,448 |
| Total | 242,184 | 224,056 | 215,429 | 227,351 | 267,219 | 296,448 |
| Craft used: | | | | | | |
| Vessels (3) | 11,796 | 12,018 | 12,311 | 13,591 | 16,875 | 18,900 |
| Motor boats | 58,218 | 56,889 | 63,828 | 71,570 | 84,445 | 92,800 |
| Other boats | 1,952 | 8,150 | 3,393 | 2,000 | 1,501 | 1,500 |
| Total | 71,966 | 77,057 | 79,532 | 87,161 | 102,821 | 113,200 |
| Shore establishments: | | | | | | |
| New England States | 532 | 568 | 532 | 537 | 503 | 478 |
| Mid-Atlantic States | 1,230 | 1,133 | 1,109 | 832 | 768 | 716 |
| South Atlantic States | 449 | 454 | 443 | 432 | 522 | 668 |
| Gulf Coast States | 642 | 743 | 847 | 817 | 726 | 845 |
| Pacific States | 421 | 381 | 420 | 402 | 362 | 410 |
| Alaska | 179 | 134 | 137 | 108 | 182 | 200 |
| Inland States (4) | 671 | 772 | 673 | 564 | 511 | 249 |
| Other (5) | - | 22 | 24 | 43 | 43 | 11 |
| Total | 4,124 | 4,207 | 4,185 | 3,735 | 3,617 | 3,577 |

(1) Estimated for fishermen and craft.
(2) Average for season.
(3) Craft 5 net tons and over as documented by U.S. Coast Guard.
(4) A partial survey was made for some inland States in 1980.
(5) Data for 1955 are not available. Data for 1960 and 1965 include Hawaii only. Data for other years include American Samoa, Hawaii, and Puerto Rico. A partial survey was made for Hawaii in 1980.



PROCESSORS AND WHOLESALERS: PLANTS AND EMPLOYMENT, 1980

| State and area | Processing | | | Wholesale | | | Total | | |
|---|---|---|---|---|---|---|---|---|---|
| | Plants | Employment average | | Plants | Employment average | | Plants | Employment average | |
| | | Season | Year | | Season | Year | | Season | Year |
| | Number | | | | | | | | |
| New England: | | | | | | | | | |
| Maine | 92 | 4,421 | 2,843 | 123 | 349 | 284 | 215 | 4,770 | 3,127 |
| New Hampshire | 13 | 549 | 464 | 3 | 15 | 13 | 16 | 564 | 477 |
| Massachusetts | 115 | 6,747 | 4,998 | 90 | 901 | 778 | 205 | 7,648 | 5,776 |
| Rhode Island | 18 | 462 | 332 | 16 | 85 | 70 | 34 | 547 | 402 |
| Connecticut | 4 | 26 | 21 | 4 | 26 | 24 | 8 | 52 | 45 |
| Total | 242 | 12,205 | 8,658 | 236 | 1,376 | 1,169 | 478 | 13,581 | 9,827 |
| Mid-Atlantic: | | | | | | | | | |
| New York | 44 | 680 | 617 | 172 | 1,886 | 1,664 | 216 | 2,566 | 2,281 |
| New Jersey | 35 | 1,461 | 1,140 | 67 | 315 | 305 | 102 | 1,776 | 1,445 |
| Pennsylvania | 16 | 1,384 | 1,251 | 19 | 235 | 234 | 35 | 1,619 | 1,485 |
| Delaware | 4 | 513 | 411 | 8 | 26 | 25 | 12 | 539 | 436 |
| District of Columbia | - | - | - | 7 | 94 | 93 | 7 | 94 | 93 |
| Maryland | 86 | 3,247 | 2,225 | 80 | 574 | 468 | 166 | 3,821 | 2,693 |
| Virginia | 128 | 6,149 | 4,403 | 50 | 463 | 419 | 178 | 6,612 | 4,822 |
| Total | 313 | 13,434 | 10,047 | 403 | 3,593 | 3,208 | 716 | 17,027 | 13,255 |
| South Atlantic: | | | | | | | | | |
| North Carolina | 109 | 2,714 | 1,745 | 225 | 909 | 608 | 334 | 3,623 | 2,353 |
| South Carolina | 20 | 703 | 439 | 119 | 690 | 350 | 139 | 1,393 | 789 |
| Georgia | 16 | 1,578 | 1,278 | 44 | 309 | 168 | 60 | 1,887 | 1,446 |
| Florida East Coast | 58 | 1,387 | 1,116 | 77 | 598 | 540 | 135 | 1,985 | 1,656 |
| Total | 203 | 6,382 | 4,578 | 465 | 2,506 | 1,666 | 668 | 8,888 | 6,244 |
| Gulf: | | | | | | | | | |
| Florida West Coast | 176 | 4,928 | 4,141 | 162 | 432 | 388 | 338 | 5,360 | 4,529 |
| Alabama | 51 | 1,738 | 1,179 | 17 | 166 | 89 | 68 | 1,904 | 1,268 |
| Mississippi | 43 | 1,889 | 1,357 | 16 | 119 | 85 | 59 | 2,008 | 1,442 |
| Louisiana | 117 | 4,228 | 2,853 | 121 | 580 | 478 | 238 | 4,808 | 3,331 |
| Texas | 51 | 1,800 | 1,364 | 91 | 1,090 | 780 | 142 | 2,890 | 2,144 |
| Total | 438 | 14,583 | 10,894 | 407 | 2,387 | 1,820 | 845 | 16,970 | 12,714 |
| Pacific: | | | | | | | | | |
| Washington | 110 | 2,816 | 1,924 | 70 | 971 | 662 | 180 | 3,787 | 2,586 |
| Oregon | 40 | 1,887 | 1,208 | 32 | 199 | 170 | 72 | 2,086 | 1,378 |
| California | 75 | 12,584 | 9,473 | 83 | 1,006 | 851 | 158 | 13,590 | 10,324 |
| Total | 225 | 17,287 | 12,605 | 185 | 2,176 | 1,683 | 410 | 19,463 | 14,288 |
| Alaska (1) | 200 | 16,000 | 8,000 | (2) | (2) | (2) | 200 | 16,000 | 8,000 |
| Inland Areas: (3) | | | | | | | | | |
| Arkansas, Kansas, and Missouri | 4 | 53 | 48 | 18 | 191 | 182 | 22 | 244 | 230 |
| Idaho, Nevada, Oklahoma, North Dakota, South Dakota, and Colorado | 3 | 24 | 14 | 8 | 39 | 33 | 11 | 63 | 47 |
| Illinois | 15 | 331 | 307 | 36 | 442 | 423 | 51 | 773 | 730 |
| Indiana | - | - | - | 10 | 98 | 89 | 10 | 98 | 89 |
| Iowa and Nebraska | 7 | 199 | 159 | 12 | 111 | 104 | 19 | 310 | 263 |
| Michigan | 17 | 202 | 151 | 29 | 285 | 262 | 46 | 487 | 413 |
| Minnesota | 8 | 277 | 134 | 9 | 34 | 28 | 17 | 311 | 162 |
| Ohio | 11 | 371 | 238 | 19 | 105 | 90 | 30 | 476 | 328 |
| Wisconsin | 24 | 231 | 201 | 19 | 172 | 161 | 43 | 403 | 362 |
| Total | 89 | 1,688 | 1,252 | 160 | 1,477 | 1,372 | 249 | 3,165 | 2,624 |
| Hawaii, American Samoa, and Puerto Rico (4) | 8 | 8,339 | 7,435 | 3 | 15 | 15 | 11 | 8,354 | 7,450 |
| Grand total | 1,718 | 89,918 | 63,469 | 1,859 | 13,530 | 10,933 | 3,577 | 103,448 | 74,402 |

(1) Data estimated. (2) Data on wholesale establishment are not available. (3) A partial survey was made in some inland States. (4) Data for all wholesale establishments in Hawaii are not available.

VESSELS CONSTRUCTED IN 1979 FOR THE UNITED STATES AND PUERTO RICO FISHING FLEETS

| Gross tonnage | By tonnage groups | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | New England | Middle Atlantic | Chesa-peake | South Atlantic | Gulf | Pacific Coast | Great Lakes | Hawaii | Puerto Rico | Total |
| | Number | | | | | | | | | |
| 0 - 9 | 43 | 3 | 21 | 20 | 32 | 92 | - | 1 | - | 212 |
| 10 - 19 | 56 | 4 | 36 | 26 | 97 | 431 | - | 1 | - | 651 |
| 20 - 29 | 15 | 1 | - | 19 | 92 | 79 | 1 | - | 1 | 208 |
| 30 - 39 | 8 | 4 | 1 | 18 | 34 | 49 | - | 1 | - | 115 |
| 40 - 49 | 5 | 4 | - | 15 | 18 | 40 | - | - | - | 82 |
| 50 - 59 | 2 | 2 | - | 13 | 16 | 19 | - | 1 | - | 53 |
| 60 - 69 | 1 | 1 | - | 2 | 14 | 16 | - | - | - | 34 |
| 70 - 79 | 3 | - | - | 3 | 6 | 16 | - | - | - | 28 |
| 80 - 89 | 1 | - | - | 6 | 23 | 13 | - | 1 | 1 | 45 |
| 90 - 99 | 1 | - | - | 4 | 31 | 5 | - | - | - | 41 |
| 100 - 109 | 1 | 1 | 4 | 29 | 94 | 1 | - | - | - | 130 |
| 110 - 119 | 4 | 3 | 3 | 7 | 67 | 4 | 1 | - | - | 89 |
| 120 - 129 | 3 | 1 | - | 11 | 25 | - | - | - | - | 40 |
| 130 - 139 | 3 | - | 1 | 2 | 30 | 5 | - | - | - | 41 |
| 140 - 149 | 5 | - | - | 2 | 9 | 11 | - | - | - | 27 |
| 150 - 159 | 6 | - | 1 | 2 | 3 | 3 | - | - | - | 15 |
| 160 - 169 | 5 | 1 | 9 | 2 | 7 | 4 | - | - | - | 28 |
| 170 - 179 | 3 | 1 | - | 1 | 10 | 4 | 1 | - | - | 20 |
| 180 - 189 | 3 | 3 | - | 1 | 5 | 11 | - | - | - | 23 |
| 190 - 199 | 7 | 1 | 1 | 1 | 4 | 39 | - | 1 | - | 54 |
| 210 - 219 | - | - | - | 1 | - | - | - | - | - | 1 |
| 460 - 469 | - | - | - | - | 1 | - | - | - | - | 1 |
| 600 - 609 | - | - | - | - | - | 1 | - | - | - | 1 |
| 680 - 689 | 1 | - | - | - | - | - | - | - | - | 1 |
| 790 - 799 | - | - | - | - | - | 1 | - | - | - | 1 |
| 1160 - 1169 | - | - | - | - | - | 1 | - | - | - | 1 |
| 1170 - 1179 | - | - | - | - | - | 1 | - | - | - | 1 |
| 1410 - 1419 | - | - | - | - | - | 1 | - | - | - | 1 |
| 1430 - 1439 | - | - | - | - | - | 1 | - | - | - | 1 |
| Total vessels | 176 | 30 | 77 | 185 | 618 | 848 | 3 | 6 | 2 | 1,945 |

| Length in feet | By length distribution | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | New England | Middle Atlantic | Chesa-peake | South Atlantic | Gulf | Pacific Coast | Great Lakes | Hawaii | Puerto Rico | Total |
| | Number | | | | | | | | | |
| 20 - 29 | 36 | 1 | 1 | 17 | 23 | 292 | - | 1 | - | 371 |
| 30 - 39 | 72 | 7 | 37 | 38 | 112 | 303 | 1 | 1 | - | 571 |
| 40 - 49 | 20 | 3 | 20 | 37 | 131 | 129 | - | - | 1 | 341 |
| 50 - 59 | 2 | 7 | - | 20 | 39 | 26 | - | 2 | - | 96 |
| 60 - 69 | 8 | 4 | 7 | 45 | 197 | 28 | - | - | 1 | 290 |
| 70 - 79 | 21 | 3 | 2 | 23 | 93 | 10 | 1 | 1 | - | 154 |
| 80 - 89 | 13 | 5 | 10 | 4 | 22 | 18 | 1 | - | - | 73 |
| 90 - 99 | 2 | - | - | 1 | - | 10 | - | - | - | 13 |
| 100 - 109 | 1 | - | - | - | - | 14 | - | - | - | 15 |
| 110 - 119 | - | - | - | - | - | 11 | - | 1 | - | 12 |
| 120 - 129 | 1 | - | - | - | - | - | - | - | - | 1 |
| 130 - 139 | - | - | - | - | - | 1 | - | - | - | 1 |
| 140 - 149 | - | - | - | - | - | 1 | - | - | - | 1 |
| 160 - 169 | - | - | - | - | 1 | 1 | - | - | - | 2 |
| 200 - 209 | - | - | - | - | - | 2 | - | - | - | 2 |
| 210 - 219 | - | - | - | - | - | 2 | - | - | - | 2 |
| Total vessels | 176 | 30 | 77 | 185 | 618 | 848 | 3 | 6 | 2 | 1,945 |

See note at end of table.

(Continued on next page)

VESSELS CONSTRUCTED IN 1979 FOR THE UNITED STATES AND PUERTO RICO FISHING FLEETS - Continued

| Horse power | By horsepower distribution | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | New England | Middle Atlantic | Chesa-peake | South Atlantic | Gulf | Pacific Coast | Great Lakes | Hawaii | Puerto Rico | Total |
| | Number | | | | | | | | | |
| 000 - 99 | 3 | - | - | 2 | 6 | 31 | 1 | 1 | - | 44 |
| 100 - 199 | 51 | 2 | 10 | 23 | 97 | 129 | - | - | - | 312 |
| 200 - 299 | 46 | 1 | 30 | 29 | 87 | 315 | - | 1 | - | 509 |
| 300 - 399 | 31 | 9 | 17 | 76 | 217 | 179 | - | 2 | 2 | 533 |
| 400 - 499 | 9 | 7 | 4 | 19 | 91 | 58 | - | - | - | 188 |
| 500 - 599 | 16 | - | 6 | 20 | 61 | 38 | 1 | - | - | 142 |
| 600 - 699 | 7 | 5 | 1 | 11 | 29 | 28 | - | 1 | - | 82 |
| 700 - 799 | 2 | - | 9 | 1 | 21 | 15 | - | - | - | 48 |
| 800 - 899 | 8 | 4 | - | 2 | 4 | 10 | - | - | - | 28 |
| 900 - 999 | - | 1 | - | 2 | 2 | 5 | - | - | - | 10 |
| 1000 - 1099 | - | 1 | - | - | - | 4 | 1 | - | - | 6 |
| 1100 - 1199 | 2 | - | - | - | 1 | 20 | - | - | - | 23 |
| 1200 - 1299 | - | - | - | - | - | 3 | - | - | - | 3 |
| 1300 - 1399 | - | - | - | - | 1 | - | - | - | - | 1 |
| 1400 - 1499 | - | - | - | - | - | 5 | - | - | - | 5 |
| 1500 - 1599 | 1 | - | - | - | - | - | - | - | - | 1 |
| 1700 - 1799 | - | - | - | - | - | 1 | - | - | - | 1 |
| 1800 - 1899 | - | - | - | - | 1 | - | - | - | - | 1 |
| 1900 - 1999 | - | - | - | - | - | - | - | 1 | - | 1 |
| 2000 2099 | - | - | - | - | - | 1 | - | - | - | 1 |
| 2200 - 2299 | - | - | - | - | - | 1 | - | - | - | 1 |
| 2400 - 2499 | - | - | - | - | - | 1 | - | - | - | 1 |
| 3600 - 3699 | - | - | - | - | - | 2 | - | - | - | 2 |
| 4600 - 4699 | - | - | - | - | - | 2 | - | - | - | 2 |
| Total vessels | 176 | 30 | 77 | 185 | 618 | 848 | 3 | 6 | 2 | 1,945 |

Note:--The above data represent the number of vessels documented by the U.S. Coast Guard as being constructed in 1979 for commercial fishing. It is possible that not all of the above vessels actually engaged in fishing. Data on commercial fishing vessels that were redocumented or that received first documentation are not readily available.

PLANTS PRODUCING CANNED FISHERY PRODUCTS, INDUSTRIAL FISHERY PRODUCTS, AND FISH FILLETS AND STEAKS, 1981

| Area and State | Canned fishery products | Industrial fishery products | Fish fillets and steaks | Total plants, exclusive of duplication |
|---|---|---|---|---|
| | Number | | | |
| New England: | | | | |
| Maine | 16 | 6 | 22 | 43 |
| Massachusetts | 1 | 3 | 58 | 62 |
| New Hampshire | - | - | 1 | 1 |
| Rhode Island | - | - | 1 | 1 |
| Total | 17 | 9 | 82 | 107 |
| Mid-Atlantic: | | | | |
| New York | 4 | 1 | 19 | 23 |
| New Jersey | 10 | 4 | 1 | 15 |
| Pennsylvania | 3 | - | 4 | 7 |
| Delaware | 2 | - | - | 2 |
| Maryland | - | 1 | - | 1 |
| Virginia | 3 | 7 | 6 | 15 |
| Total | 22 | 13 | 30 | 63 |
| South Atlantic and Gulf: | | | | |
| North Carolina | 3 | 10 | 25 | 37 |
| South Carolina | 2 | 1 | 2 | 5 |
| Georgia | - | 3 | - | 3 |
| Florida | 2 | 6 | 39 | 45 |
| Alabama | - | 1 | - | 1 |
| Mississippi | 5 | 3 | - | 8 |
| Louisiana | 10 | 18 | - | 27 |
| Total | 22 | 42 | 66 | 126 |
| Pacific: | | | | |
| Washington | 25 | 10 | 29 | 57 |
| Oregon | 6 | 1 | 14 | 21 |
| California | 13 | 9 | 25 | 43 |
| Total | 44 | 20 | 68 | 121 |
| Alaska | 73 | 3 | - | 76 |
| Inland States: | | | | |
| Illinois | - | - | 11 | 11 |
| Iowa | - | 1 | 3 | 4 |
| Kansas | 1 | - | - | 1 |
| Michigan | 2 | - | 9 | 11 |
| Minnesota | - | 1 | 4 | 4 |
| Ohio | - | 1 | 5 | 6 |
| Nebraska | 1 | - | - | 1 |
| Wisconsin | 2 | 3 | 15 | 20 |
| Total | 6 | 6 | 47 | 58 |
| Hawaii | 1 | 1 | - | 1 |
| American Samoa | 2 | 2 | - | 2 |
| Puerto Rico | 5 | 4 | - | 5 |
| Grand total | 192 | 100 | 293 | 559 |

FISHERY PRODUCTS AND ESTABLISHMENTS INSPECTED IN CALENDAR YEAR 1981

| Region | Edible fishery products | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | Establishments (1) | | | Amount inspected | | | | |
| | SIFE (2) | PUFI (3) | MP (4) | Grade A (5) | PUFI (5) | No mark (6) | Lot (7) | Total |
| | Number | | | Thousand pounds | | | | |
| Northeast | 4 | 34 | 5 | 92,870 | 163,260 | 29,026 | 37,734 | 322,890 |
| Southeast | 1 | 22 | 9 | 7,916 | 74,804 | 7,752 | 28,344 | 118,816 |
| West | 4 | 10 | 10 | 8,826 | 128,392 | 6,625 | 39,211 | 183,054 |
| Total, 1981 | 9 | 66 | 24 | 109,612 | 366,456 | 43,403 | 105,289 | 624,760 |
| Total, 1980 | 11 | 57 | 23 | 114,205 | 422,080 | 39,033 | 108,177 | 683,495 |

(1) These establishments are inspected under contract and certified as meeting U.S. Department of Commerce (USDC) regulations for construction and maintenance of facilities and equipment, processing techniques, and employment practices.
(2) Fish processing establishments approved for sanitation under the Sanitarily Inspected Fish Establishment Service (SIFE). Products are not processed under inspection.
(3) Sanitarily inspected fish establishments processing fishery products under USDC inspection.
(4) Plants under USDC inspection for military purchase (MP) products only.
(5) Products processed under USDC inspection in inspected establishments and labeled with USDC inspection mark as "Packed Under Federal Inspection" (PUFI) or "U.S. Grade A."
(6) Products processed under inspection in inspected establishments but bearing no USDC inspection mark.
(7) Lot inspected products checked for quality and condition at the time of examination and located in processing plants, warehouses, cold storage facilities, or terminal markets anywhere in the United States.

Source:--NMFS, Seafood Research, Inspection, and Consumer Services Division.

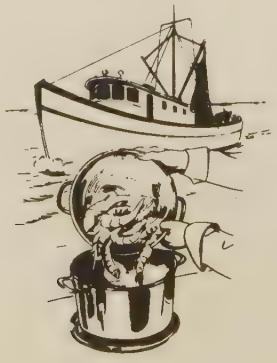
FISHERY COOPERATIVES IN THE UNITED STATES, GUAM, PUERTO RICO, AND VIRGIN ISLANDS, 1981

| Region and State or area | Total | Members | Fishing craft | Functions performed by cooperatives: Marketing and purchasing | Marketing exclusively | Other |
|---|---|---|---|---|---|---|
| | | | Number | | | |
| New England and Middle Atlantic: | | | | | | |
| Maine | 17 | 747 | 658 | 14 | - | 3 |
| Massachusetts | 6 | 936 | 282 | 5 | - | 1 |
| Rhode Island | 2 | 221 | 138 | 1 | 1 | - |
| Connecticut | 1 | 125 | 40 | - | - | 1 |
| New Jersey | 3 | 70 | 51 | 3 | - | - |
| Total | 29 | 2,099 | 1,169 | 23 | 1 | 5 |
| South Atlantic and Gulf: | | | | | | |
| Florida | 3 | 122 | 120 | - | 2 | 1 |
| Georgia | 1 | 22 | 33 | 1 | - | - |
| Mississippi | 2 | 45 | 1 | - | - | 2 |
| South Carolina | 2 | 41 | 23 | 1 | 1 | - |
| Texas | 2 | 87 | 154 | 2 | - | - |
| Total | 10 | 317 | 331 | 4 | 3 | 3 |
| Great Lakes and inland: | | | | | | |
| Michigan | 1 | 125 | 90 | 1 | - | - |
| Minnesota | 1 | 200 | 100 | 1 | - | - |
| Total | 2 | 325 | 190 | 2 | - | - |
| Pacific Coast: | | | | | | |
| Alaska | 22 | 2,650 | 2,180 | 5 | 4 | 13 |
| California | 20 | 3,102 | 2,415 | 1 | 8 | 11 |
| Oregon | 5 | 1,200 | 1,010 | 2 | 2 | 1 |
| Washington | 13 | 2,652 | 2,581 | 1 | 4 | 8 |
| Total | 60 | 9,604 | 8,186 | 9 | 18 | 33 |
| Guam | 1 | (1) | (1) | - | 1 | - |
| Puerto Rico | 15 | 389 | 193 | 15 | - | - |
| Virgin Islands | 2 | 80 | 60 | 2 | - | - |
| Grand total | 119 | 12,814 | 10,129 | 55 | 23 | 41 |

(1) Not available.

Note:--These cooperatives meet at least one of the following two requirements: 1. Each member of the Association has one vote irrespective of the amount of stock or membership capital he may own therein; or 2. The Association's dividends on stock or membership capital does not exceed 8 percent per year and the Association shall not deal in the products of nonmembers in an amount greater in value than is handled for members.

Source:--NMFS, Fisheries Development Division (F/UD11)



# THE MAGNUSON FISHERY CONSERVATION AND MANAGEMENT ACT



The Magnuson Fishery Conservation and Management Act (MFCMA), Public Law 94-265 as amended, provides for the conservation and exclusive management of all fishery resources within the U.S. fishery conservation zone (FCZ) except highly migratory species of tuna. It also provides for exclusive management authority over continental shelf fishery resources and anadromous species beyond the U.S. FCZ, except during the time they are found within any foreign nation's territorial sea or fishery conservation zone (or the equivalent), to the extent that such sea or zone is recognized by the United States.

The U.S. FCZ extends from the seaward boundaries of the territorial sea (3 nautical miles from shore for all but 2 States) to 200 nautical miles from shore. The seaward boundaries of Texas, Puerto Rico, and the Gulf Coast of Florida are 3 marine leagues (9 nautical miles).

## GOVERNING INTERNATIONAL FISHERY AGREEMENTS

Under the MFCMA, the U.S. Department of State, with cooperation from the National Oceanic and Atmospheric Administration of the U.S. Department of Commerce, negotiates a Governing International Fishery Agreement (GIFA) with any foreign country wishing to fish within the U.S. FCZ. After the GIFA is signed, it is transmitted by the President to the Congress for review.

## FOREIGN FISHING PERMIT

After a GIFA is in force, the foreign nation submits a vessel permit application for each vessel to the U.S. Department of State. The U.S. Department of State provides copies of the application to the Congress, the U.S. Coast Guard, the appropriate Regional Fishery Management Council, and to the Assistant Administrator for Fisheries of the National Marine Fisheries Service (NMFS) with recommendations. The NMFS also receives recommendations from the Regional Fishery Management Councils and the U.S. Coast Guard, as well as the general public.

The Assistant Administrator for Fisheries reviews all recommendations pertinent to the application and, after consultation with the U.S. Department of State and the U.S. Coast Guard, may approve the application. The conditions and restrictions on the approval of the application are sent to the foreign nation through the U.S. Department of State, and must be accepted by the nation before a permit is issued.

## FEES

Foreign nations (except Canada) engaged in fisheries subject to U.S. jurisdiction are charged permit fees, a poundage fee, a foreign fee surcharge, and an observer fee.

The permit fees in 1981 were modified to recover administrative costs of issuing permits and providing logbooks. A uniform permit fee of $50 per vessel was charged for catching, processing or other support vessel permits. Permit fees are paid when permit applications are submitted.

The poundage fees in 1981 were computed by assessing 3.5, 7, or 10 percent of the dockside (exvessel) price of fish that were actually caught by each nation. Seven percent was the basic percentage applied; 3.5 percent was used when 7 percent would make a fishery uneconomic, and 10 percent was used for species particularly important to U.S. fishermen.

In 1981, the United States imposed a surcharge of 20 percent on each nation's permit fee and poundage fee, but not on the observer fee. The surcharge is used to capitalize a fund to compensate U.S. fishermen operating in the U.S. FCZ whose vessels or gear are lost or damaged because of conflicts with foreign vessels.

The observer fee covers U.S. costs including salary, per diem, transportation, and overhead for U.S. observers on board foreign vessels. The fee is computed on the basis of actual observer trips.

## FOREIGN ALLOCATIONS

The total allowable level of foreign fishing (TALFF), if any, for any fishery subject to the exclusive fishery management authority of the United States is that portion of the optimum yield (OY) of such fishery that will not be harvested by vessels of the United States.

Each assessment of OY and each assessment of the anticipated U.S. harvest is reviewed during each fishing season. Adjustments to TALFF's are based on updated information relating to status of stocks, estimated and actual performance of domestic and foreign fleets, and other relevant factors.

FMP's and PMP's

Under the Magnuson Act, eight Regional Fishery Management Councils are charged with preparing Fishery Management Plans (FMP's) for the fisheries needing management under their jurisdiction. After the Councils develop FMP's, which cover domestic and foreign fishing efforts, the FMP's are submitted to the Secretary of Commerce for approval and implementation. The Department, through NMFS agents and the U.S. Coast Guard, is responsible for enforcing the law and regulations.

The Secretary of Commerce is also empowered to prepare plans. Where no FMP exists, Preliminary Fishery Management Plans (PMP's), which only cover foreign fishing efforts, are prepared by the Secretary for each fishery for which a foreign nation requests a permit. The Secretary is also empowered to produce an FMP for any fishery that a Council has not duly produced. In this latter case, the Secretary's plan covers domestic and foreign fishing.

As of January 1, 1982, seven Preliminary Fishery Management Plans (PMP's) were in effect, many of which have been amended since first being implemented.

Atlantic Billfishes and Sharks
Foreign Trawl Fisheries of the Northwest Atlantic
Hake Fisheries of the Northwestern Atlantic
Trawl Fisheries off the Coasts of Washington, Oregon, and Califonia
Bering Sea Snails
Pacific Billfishes and Oceanic Sharks
Seamount Groundfish of the Pacific

Under Section 304 of the Magnuson Act, all Council-prepared FMP's must be reviewed by the Secretary of Commerce. As of January 1, 1982, six plans were undergoing Secretarial Review.

Billfish of the Western Pacific Region
Coastal Migratory Pelagic Resources (South Atlantic and Gulf of Mexico)
Groundfish off the Coasts of Washington, Oregon, and California
Reef Fish (Gulf of Mexico)
Spiny Lobster (Caribbean)
Spiny Lobster (Gulf of Mexico and South Atlantic)

After plans are approved under Section 304 of the Magnuson Act, they are implemented with Federal regulations under Section 305 of the Act. As of January 1, 1982, one plan was awaiting implementation.

Precious Corals of the Western Pacific Region

As of January 1, 1982, 14 FMP's were fully implemented, many of which have been amended since initial implementation.

Atlantic Butterfish
Atlantic Groundfish
Atlantic Herring
Atlantic Mackerel
Atlantic Squid
Surf Clam and Ocean Quahogs
Gulf of Mexico Shrimp
Gulf of Mexico Stone Crabs
Northern Anchovy (Pacific Ocean)
Salmon Fisheries off the Coasts of Washington, Oregon, and California
High Seas Salmon off Alaska
Tanner Crab off Alaska
Groundfish of the Bering Sea and Aleutian Islands
Gulf of Alaska Groundfish

REGIONAL FISHERY MANAGEMENT COUNCILS

| Council | States | Telephone number | Executive Director |
|---|---|---|---|
| NEW ENGLAND | (Maine, New Hampshire, Massachusetts, Rhode Island, and Connecticut) | 617-231-0422 | Douglas G. Marshall, Suntaug Office Park 5 Broadway (Rte. 1), Saugus, MA 01906 |
| MID-ATLANTIC | (New York, New Jersey, Delaware, Pennsylvania, Maryland, and Virginia) | 302-674-2331 | John C. Bryson, Federal Bldg., Suite 2115 North and New Sts., Dover, DE 19901 |
| SOUTH ATLANTIC | (North Carolina, South Carolina, Georgia, and Florida) | 803-571-4366 | David H. G. Gould, Southpark Bldg., Suite 306 1 Southpark Circle, Charleston, SC 29407 |
| GULF OF MEXICO | (Texas, Louisiana, Mississippi, Alabama, and Florida) | 813-228-2815 | Wayne E. Swingle, Lincoln Center, Suite 881 5401 W. Kennedy Blvd., Tampa, FL 33607 |
| CARIBBEAN | (Puerto Rico and Virgin Islands) | 809-753-4926 | Omar Munoz-Roure, Banco de Ponce Bldg. P.O. Box 1001 Hato Rey, PR 00918 |
| PACIFIC | (California, Washington, Oregon, and Idaho) | 503-221-6352 | Joseph C. Greenly, 526 SW. Mill St. Portland, OR 97201 |
| NORTH PACIFIC | (Alaska, Washington, and Oregon) | 907-271-4064 | Jim H. Branson, 333 W. Fourth Ave., Suite 32 P.O. Box 3136DT, Anchorage, AK 99510 |
| WESTERN PACIFIC | (Hawaii, American Samoa, Guam, and other Pacific areas). | 808-523-1368 | Svein Fougner 1164 Bishop St., Room 1608 Honolulu, HI 96813 |

OPTIMUM YIELD, DOMESTIC ANNUAL HARVEST, RESERVE, TALFF, AND FOREIGN ALLOCATIONS: BY COUNTRY AND REGION, 1981

| Item | North Atlantic | Washington, Oregon, and California | Gulf of Alaska | Eastern Bering Sea and Aleutian Islands | Pacific Seamount | Total |
|---|---|---|---|---|---|---|
| | Metric tons, round weight | | | | | |
| Optimum yield (OY) | 453,150 | 352,200 | 420,991 | 1,582,226 | 2,000 | 2,810,567 |
| DAH (1) | 295,200 | 252,855 | 43,367 | 102,617 | 0 | 694,039 |
| Reserve | 9,332 | 0 | 3,360 | 0 | 0 | 12,692 |
| TALFF (2) | 148,618 | 99,345 | 374,264 | 1,479,609 | 2,000 | 2,103,836 |
| Country allocations | | | | | | |
| Bulgaria | 12,295 | 10,457 | 0 | 0 | 0 | 22,752 |
| Cuba | 6,641 | 0 | 0 | 0 | 0 | 6,641 |
| EEC: | | | | | | |
| Federal Republic of Germany | 0 | 0 | 1,200 | 22,981 | 0 | 24,181 |
| Italy | 22,897 | 0 | 0 | 0 | 0 | 22,897 |
| Faroe Islands | 600 | 0 | 0 | 0 | 0 | 600 |
| Japan | 24,303 | 0 | 217,439 | 1,181,443 | 1,000 | 1,424,185 |
| Poland | 8,475 | 83,658 | 64,252 | 73,945 | 0 | 230,330 |
| Portugal | 10,928 | 0 | 0 | 0 | 0 | 10,928 |
| Republic of Korea | 0 | 0 | 88,387 | 180,149 | 0 | 268,536 |
| Spain | 28,316 | 0 | 0 | 0 | 0 | 28,316 |
| Taiwan | 0 | 0 | 0 | 20,866 | 1,000 | 21,866 |
| Unallocated | 34,163 | 5,230 | 2,986 | 225 | 0 | 42,604 |

(1) Domestic annual harvest.

(2) Total allowable level of foreign fishing.

Note:--TALFF = OY minus domestic annual harvest minus reserve. (See Glossary.) Table only includes species for which there was a foreign fishery. Species prohibited to foreign fishing are not included.

Source:--Country allocations are from the U.S. Department of State, Office of Fisheries Affairs; all other data are from the National Marine Fisheries Service, Office of Resource Conservation and Management.

OPTIMUM YIELD, DOMESTIC ANNUAL HARVEST, RESERVE, TALFF, AND FOREIGN FISHING ALLOCATIONS: NORTH ATLANTIC AND GULF OF MEXICO, BY SPECIES AND COUNTRY, 1981

| Item | Directed fisheries | | | | | Incidental catch | | | | Total |
|---|---|---|---|---|---|---|---|---|---|---|
| | Red hake | Silver hake | Sharks, except dogfish | Long-finned squid(1) | Short-finned squid(1) | Atlantic mackerel (1) | Butterfish (1)(2) | River herring (3) | Other finfish | |
| | Metric tons, round weight | | | | | | | | | |
| Optimum yield (OY) . . | 22,000 | 55,000 | 6,150 | 44,000 | 30,000 | 30,000 | 11,000 | 8,000 | 247,000 | 453,150 |
| DAH (4) . . . . | 13,500 | 29,600 | 5,000 | 7,000 | 5,000 | 20,000 | 7,000 | 7,900 | 200,200 | 295,200 |
| Reserve . . . . | 3,000 | 6,000 | 0 | 332 | 0 | 0 | 0 | 0 | 0 | 9,332 |
| TALFF (5) . . . | 5,500 | 19,400 | 1,150 | 36,668 | 25,000 | 10,000 | (6) 4,000 | 100 | 46,800 | 148,618 |
| Country allocations | | | | | | | | | | |
| Bulgaria. . . . | 487 | 2,000 | 0 | 2,000 | 1,000 | 3,000 | 25 | 5 | 3,778 | 12,295 |
| Cuba. . . . . | 487 | 2,000 | 0 | 125 | 234 | 7 | 5 | 5 | 3,778 | 6,641 |
| EEC, Italy. . . | 487 | 2,742 | 0 | 6,950 | 6,170 | 2,610 | 150 | 10 | 3,778 | 22,897 |
| Faroe Islands . | 0 | 0 | 500 | 0 | 0 | 0 | 0 | 0 | 100 | 600 |
| Japan . . . . . | 900 | 1,242 | 0 | 11,869 | 5,600 | 594 | 310 | 10 | 3,778 | 24,303 |
| Poland. . . . . | 487 | 2,834 | 0 | 531 | 500 | 305 | 22 | 18 | 3,778 | 8,475 |
| Portugal. . . . | 487 | 2,205 | 0 | 1,978 | 2,000 | 392 | 83 | 5 | 3,778 | 10,928 |
| Spain . . . . . | 487 | 1,400 | 0 | 12,336 | 8,920 | 780 | 605 | 10 | 3,778 | 28,316 |
| Unallocated . . | 1,678 | 4,977 | 650 | 879 | 576 | 2,312 | 2,800 | 37 | 20,254 | 34,163 |

(1) For fishing year beginning on April 1, 1981, and ending on March 31, 1982.
(2) Allocated by country in proportion to long-finned squid fishery.
(3) Includes alewife, blueback herring, and hickory shad.
(4) Domestic annual harvest.
(5) Total allowable level of foreign fishing.
(6) The Mid-Atlantic Fisheries Management Council certified an annual fishing level (AFL) of 759 metric tons (mt) for butterfish for the fishing year. An additional 659 mt was made available in February 1982, for a total of 1,418 mt available for allocation to foreign nations.

Source:--Country allocations are from the U.S. Department of State, Office of Fisheries Affairs; all other data are from the National Marine Fisheries Service, Office of Resource Conservation and Management.

OPTIMUM YIELD, DOMESTIC ANNUAL HARVEST, RESERVE, TALFF, AND FOREIGN FISHING ALLOCATIONS: WASHINGTON, OREGON, AND CALIFORNIA, BY SPECIES AND COUNTRY, 1981

| Item | Directed fisheries | Incidental catch | | | | | | Total |
|---|---|---|---|---|---|---|---|---|
| | | | | Rockfishes | | | | |
| | Pacific hake (whiting) | Jack mackerel | Flounders | Pacific ocean perch | Other | Sablefish | Other species | |
| | Metric tons, round weight | | | | | | | |
| Optimum yield (OY) | 175,000 | 55,000 | 38,400 | 1,000 | 43,300 | 13,400 | 26,100 | 352,200 |
| DAH (1) | 80,000 | 52,150 | 38,305 | 941 | 42,599 | 13,235 | 25,625 | 252,855 |
| Reserve | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| TALFF (2) | 95,000 | (3)2,850 | (4) 95 | (5)59 | (6)701 | (7)165 | (8)475 | 99,345 |
| Country allocations | | | | | | | | |
| Poland | 80,000 | 2,400 | 80 | 50 | 590 | 138 | 400 | 83,658 |
| Bulgaria | 10,000 | 300 | 10 | 6 | 74 | 17 | 50 | 10,457 |
| Unallocated | 5,000 | 150 | 5 | 3 | 37 | 10 | 25 | 5,230 |

(1) Domestic annual harvest.
(2) Total allowable level of foreign fishing.
(3) 3.0% of the hake TALFF.
(4) 0.1% of the hake TALFF.
(5) 0.062% of the hake TALFF.
(6) 0.738% of the hake TALFF. Includes short belly rockfish.
(7) 0.173% of the hake TALFF.
(8) 0.5% of the hake TALFF.

Source:--Country allocations are from the U.S. Department of State, Office of Fisheries Affairs; all other data are from the National Marine Fisheries Service, Office of Resource Conservation and Management.

OPTIMUM YIELD, DOMESTIC ANNUAL HARVEST, RESERVE, TALFF, AND FOREIGN FISHING ALLOCATIONS: GULF OF ALASKA, BY SPECIES AND COUNTRY, 1981 FISHING YEAR (NOVEMBER 1, 1980, TO DECEMBER 31, 1981)

| Item | Directed fisheries | | | | | | | | | Incidental catch | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Rockfishes | | | | | | |
| | Alaska pollock | Atka mackerel | Flounders | Pacific cod | Idiot | Pacific ocean perch | Other | Sablefish | Squid | Other species (1) | |
| | Metric tons, round weight | | | | | | | | | | |
| Optimum yield (OY). . | 196,933 | 33,484 | 39,083 | 70,000 | 4,375 | 29,167 | 8,867 | 14,349 | 5,833 | 18,900 | 420,991 |
| DAH (2) . . . | 26,293 | 115 | 1,910 | 6,366 | 7 | 2,001 | 500 | 4,343 | 25 | 1,807 | 43,367 |
| Reserve. . . . | 0 | 0 | 0 | 0 | 0 | 3,360 | 0 | 0 | 0 | 0 | 3,360 |
| TALFF (3). . . | 170,640 | 33,369 | 37,173 | 63,634 | 4,368 | 23,806 | 8,367 | 10,006 | 5,808 | 17,093 | 374,264 |
| Country allocations | | | | | | | | | | | |
| EEC, Federal Republic of Germany. . | 840 | 45 | 30 | 90 | 15 | 30 | 30 | 15 | 45 | 60 | 1,200 |
| Japan. . . . . | 82,385 | 11,351 | 27,297 | 51,873 | 3,298 | 15,169 | 4,133 | 7,934 | 4,039 | 9,960 | 217,439 |
| Poland . . . . | 46,677 | 5,483 | 3,236 | 2,712 | 253 | 1,858 | 1,061 | 426 | 508 | 2,038 | 64,252 |
| Republic of Korea. . . . | 40,738 | 16,490 | 6,610 | 8,959 | 802 | 3,763 | 3,143 | 1,631 | 1,216 | 5,035 | 88,387 |
| Unallocated. . | 0 | 0 | 0 | 0 | 0 | 2,986 | 0 | 0 | 0 | 0 | 2,986 |

(1) Includes rattail, sculpins, sharks, skates, euchalon, smelts, capelin, and octopus.
(2) Domestic annual harvest.
(3) Total allowable level of foreign fishing.

Source:--Country allocations are from the U.S. Department of State, Office of Fisheries Affairs; all other data are from the National Marine Fisheries Service, Office of Resource Conservation and Management.

OPTIMUM YIELD, DOMESTIC ANNUAL HARVEST, RESERVE, TALFF, AND FOREIGN FISHING ALLOCATIONS: EASTERN BERING SEA AND ALEUTIAN ISLANDS, BY SPECIES AND COUNTRY, 1981

| Item | Directed fisheries | | | | | |
|---|---|---|---|---|---|---|
| | | | Flounders | | | |
| | Alaska pollock | Atka mackerel | Turbot | Yellowfin sole | Other | Pacific cod |
| | Metric tons, round weight | | | | | |
| Optimum yield (OY). . . | 1,100,000 | 24,800 | 90,000 | 117,000 | 61,000 | 78,700 |
| DAH (1). . . . . | 44,550 | 1,340 | 275 | 17,200 | 7,250 | 27,232 |
| Reserve. . . . . | 0 | 0 | 0 | 0 | 0 | 0 |
| TALFF (2). . . . | 1,055,450 | 23,460 | 89,725 | 99,800 | 53,750 | 51,468 |
| Country allocations | | | | | | |
| EEC, Federal Rep. of Germany. . . | 13,040 | 840 | 1,308 | 1,158 | 1,104 | 2,886 |
| Japan. . . . . | 859,502 | 10,283 | 72,124 | 73,538 | 44,641 | 38,015 |
| Poland . . . . . | 54,624 | 1,000 | 4,046 | 4,109 | 2,117 | 1,958 |
| Rep. of Korea. . | 115,881 | 10,875 | 10,357 | 19,549 | 4,440 | 6,705 |
| Taiwan . . . . . | 12,403 | 237 | 1,890 | 1,446 | 1,448 | 1,904 |
| Unallocated. . . | 0 | 225 | 0 | 0 | 0 | 0 |

| Item | Directed fisheries | | | | | Incidental catch | Total |
|---|---|---|---|---|---|---|---|
| | Rockfishes | | | | | | |
| | Pacific ocean perch | Other | Sablefish | Snails (meats) | Squid | Other species | |
| | Metric tons, round weight | | | | | | |
| Optimum yield (OY). . . | 10,750 | 7,727 | 5,000 | 3,000 | 10,000 | 74,249 | 1,582,226 |
| DAH (1). . . . . | 300 | 150 | 200 | 0 | 20 | 4,100 | 102,617 |
| Reserve. . . . . | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| TALFF (2). . . . | 10,450 | 7,577 | 4,800 | 3,000 | 9,980 | 70,149 | 1,479,609 |
| Country allocations | | | | | | | |
| EEC, Federal Rep. of Germany. . . | 206 | 167 | 112 | 0 | 201 | 1,959 | 22,981 |
| Japan. . . . . | 8,222 | 5,769 | 3,487 | 3,000 | 7,193 | 55,669 | 1,181,443 |
| Poland . . . . . | 897 | 445 | 294 | 0 | 691 | 3,764 | 73,945 |
| Rep. of Korea. . | 939 | 1,076 | 773 | 0 | 1,712 | 7,842 | 180,149 |
| Taiwan . . . . . | 186 | 120 | 134 | 0 | 183 | 915 | 20,866 |
| Unallocated. . . | 0 | 0 | 0 | 0 | 0 | 0 | 225 |

(1) Domestic annual harvest. (2) Total allowable level of foreign fishing.

Source:--Country allocations are from the U.S. Department of State, Office of Fisheries Affairs; all other data are from the National Marine Fisheries Service, Office of Resource Conservation and Management.

OPTIMUM YIELD, DOMESTIC ANNUAL HARVEST, RESERVE, TALFF, AND FORIGN FISHING ALLOCATIONS: PACIFIC SEAMOUNT GROUNDFISH FISHERY, BY COUNTRY, 1981

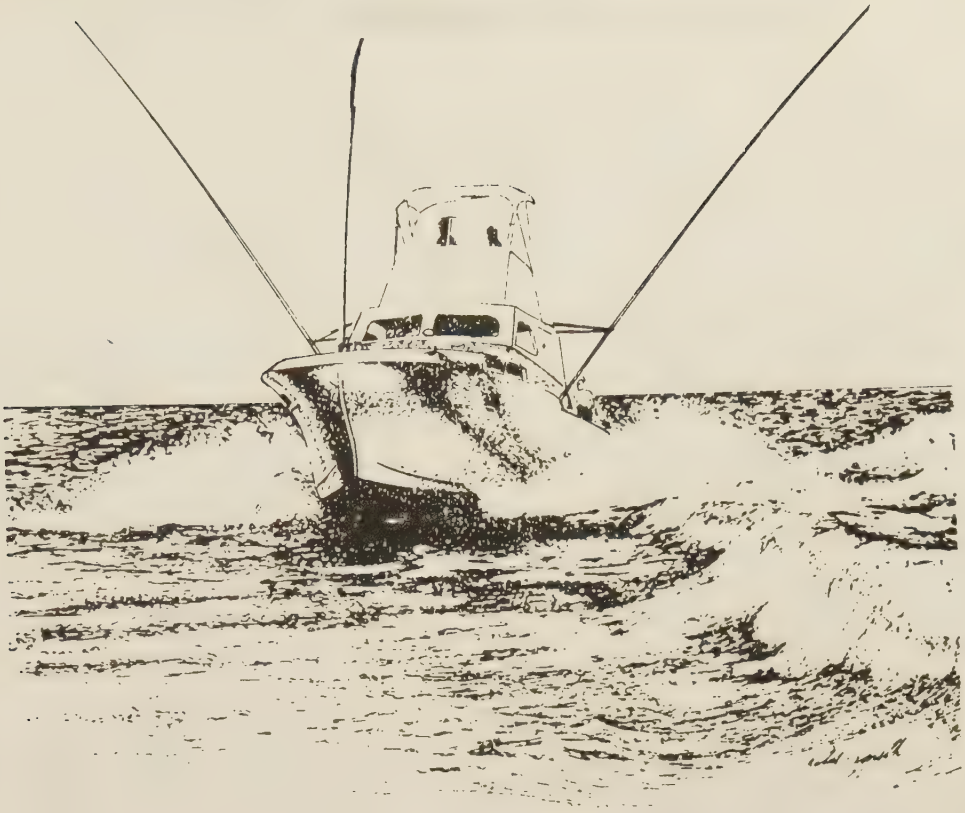
| Item | Directed fisheries |
|---|---|
| | Pelagic armorheads, alfonsins, and other groundfish |
| | - - - - - - Metric tons, round weight - - - - - - |
| Optimum yield (OY) . . . . . | 2,000 |
| DAH (1) . . . . . | 0 |
| Reserve . . . . . | 0 |
| TALFF (2) . . . . . | 2,000 |
| Country allocations | |
| Japan . . . . . | 1,000 |
| Taiwan. . . . . | 1,000 |

(1) Domestic annual harvest.

(2) Total allowable level of foreign fishing.

Note:--The TALFF for armorheads, alfonsins, and other groundfish resources was subject to additional restrictions on total effort by foreign fishing vessels. No more than 50 vessel days of trawling and 50 vessel days of bottom longlining were allowed in this fishery.

Source:--Country allocations are from the U.S. Department of State, Office of Fisheries Affairs; all other data are from the National Marine Fisheries Service, Office of Resource Conservation and Management.



UNITED STATES DEPARTMENT OF COMMERCE

WASHINGTON, DC 20235

| Mail routing code | | Telephone number | Location |
|---|---|---|---|
| — | Secretary of Commerce, Malcolm Baldrige<br>14th and E Sts., NW.<br>Washington, DC 20230 | 202-377-2112 | Commerce |
| A | National Oceanic and Atmospheric Administration<br>Administrator, John V. Byrne<br>14th and E Sts., NW.<br>Washington, DC 20230 | 202-377-3567 | Commerce |
| | NATIONAL MARINE FISHERIES SERVICE--CENTRAL OFFICE | | |
| F | Assistant Administrator for Fisheries,<br>William G. Gordon | 202-634-7283 | Page 2 Bldg. |
| F | Deputy Assistant Administrator,<br>William H. Stevenson | 202-634-7243 | Page 2 Bldg. |
| Fx3 | Executive Director,<br>Vacant | 202-634-7292 | Page 2 Bldg. |
| Fx3 | Deputy, Robert K. Crowell | 202-634-7405 | Page 2 Bldg. |
| Fx32 | Administrative Support Staff,<br>Jack L. Falls | 202-634-7405 | Page 2 Bldg. |
| Fx33 | Budget Operations Staff,<br>David H. Rand | 202-634-7444 | Page 2 Bldg. |
| Fx34 | Management Services Staff,<br>E. Craig Felber | 202-634-7405 | Page 2 Bldg. |
| Fx5 | Office of Policy and Planning,<br>Director, Richard E. Gutting, Jr. | 202-634-7430 | Page 2 Bldg. |
| Fx5 | Deputy, Samuel W. McKeen | 202-634-7430 | Page 2 Bldg. |
| Fx51 | Policy Staff,<br>Herbert L. Blatt | 202-653-7551 | Page 2 Bldg. |
| Fx52 | Plans and Budget Staff,<br>James H. Czerwonky | 202-634-7328 | Page 2 Bldg. |
| Fx53 | Economics Staff,<br>Morton M. Miller | 202-634-7111 | Page 2 Bldg. |
| GCF | Office of General Counsel-Fisheries,<br>Assistant General Counsel,<br>Jay S. Johnson | 202-634-4224 | Page 2 Bldg. |
| CAx2 | Office of Congressional Affairs,<br>Congressional Affairs Specialist,<br>Vacant | 202-634-1795 | Page 2 Bldg. |
| F/UD | Office of Utilization and Development,<br>Director, Vacant | 202-634-7261 | Page 2 Bldg. |
| F/UD | Deputy, Vacant | 202-634-7261 | Page 2 Bldg. |
| F/UD1 | Fisheries Development Division,<br>John T. Everett | 202-634-7451 | Page 2 Bldg. |
| F/UD2 | Seafood Research, Inspection, and<br>Consumer Services Division,<br>Thomas J. Billy | 202-634-7458 | Page 2 Bldg. |
| F/UD24 | National Seafood Quality and Inspection<br>Laboratory, E. Spencer Garrett<br>P.O. Drawer 1207<br>Pascagoula, MS 39567 | 601-762-4591 | Pascagoula, MS |
| F/UD5 | Financial Services Division,<br>Michael L. Grable | 202-634-7496 | Page 2 Bldg. |

(Continued)

| Mail routing code | | Telephone number | Location |
|---|---|---|---|
| | CENTRAL OFFICE - Continued | | |
| F/CM | Office of Resource Conservation and Management, | | Washington, D.C. |
| | Director, Vacant | 202-634-7218 | Page 2 Bldg. |
| F/CM | Deputy, Roland F. Smith | 202-634-7218 | Page 2 Bldg. |
| F/CMx1 | Recreational Fisheries, Robert F. Hutton | 202-254-5536 | Page 2 Bldg. |
| F/CM1 | State/Federal Division, Richard H. Schaefer | 202-634-7454 | Page 2 Bldg. |
| F/CM5 | Enforcement Division, Morris M. Pallozzi | 202-634-7265 | Page 1 Bldg. |
| F/CM6 | Plan Review Division, Roland A. Finch | 202-634-7449 | Page 2 Bldg. |
| F/CM7 | Permits and Regulations Division, Alfred J. Bilik | 202-634-7432 | Page 2 Bldg. |
| F/IA | Office of International Fisheries Affairs, | | |
| | Director, Carmen J. Blondin | 202-634-7514 | Page 2 Bldg. |
| F/IA1 | Foreign Fisheries Analysis Division, Milan A. Kravanja | 202-634-7307 | Page 2 Bldg. |
| F/IA2 | International Organizations and Agreements Division, Henry R. Beasley | 202-634-7257 | Page 2 Bldg. |
| F/IA4 | International Fisheries Development and Services Division, Prudence I. Fox | 202-634-7263 | Page 2 Bldg. |
| F/SR | Office of Science and Environment, | | |
| | Director, Vacant | 202-634-7469 | Page 2 Bldg. |
| F/SR | Deputy, Lamarr B. Trott | 202-634-7469 | Page 2 Bldg. |
| F/SR1 | Resource Statistics Division, Vacant | 202-634-7366 | Page 1 Bldg. |
| F/SR4 | Data Management and Information Systems Division, Hoyt A. Wheeland | 202-254-7806 | Page 2 Bldg. |
| F/MM | Office of Marine Mammals and Endangered Species, | | |
| | Director, Vacant | 202-634-7461 | Page 2 Bldg. |
| F/MM | Deputy, Richard B. Roe | 202-634-7461 | Page 2 Bldg. |
| F/MM1 | Permits and Documentation Division, Robert B. Brumsted | 202-634-7529 | Page 2 Bldg. |
| F/MM2 | Research and Management Division, Vacant | 202-634-1791 | Page 2 Bldg. |
| F/HP | Office of Habitat Protection, | | |
| | Director, Vacant | 202-634-7490 | Page 2 Bldg. |
| F/HP | Deputy, Kenneth R. Roberts | 202-634-7490 | Page 2 Bldg. |

Location of Page Buildings

Page 1 Building is in upper Georgetown at 2001 Wisconsin Ave., NW., Washington, D.C. The Page 2 Building is behind the Page 1 Building at 3300 Whitehaven St., NW.

Mailing address

Use of the mail routing code will speed your mail. A sample address is as follows: Name and title, National Marine Fisheries Service (F), NOAA, U.S. Department of Commerce, Washington, DC 20235

(Continued)

| Mail routing code | | Telephone number | Location |
|---|---|---|---|
| | REGIONAL OFFICES | | |
| F/NER | Northeast Region<br>Director, Allen E. Peterson Jr.<br>Federal Bldg., 14 Elm St.<br>Gloucester, MA 01930 | 617-281-3600<br>Ext. 250 | Gloucester, MA |
| | Liaison Office<br>Robert W. Hanks<br>NMFS, U. S. Customs House<br>Portland, ME 04101 | 207-780-3221 | Portland, ME |
| | Liaison Office<br>John F. Linehan<br>NMFS, Federal Bldg.<br>53 N. 6th Street<br>New Bedford, MA 02740 | 617-999-1206 | New Bedford, MA |
| F/NER543 | Liaison Office<br>Robert L. Lippson<br>NMFS, Oxford Laboratory<br>Railroad Avenue<br>Oxford, MD 21654 | 301-226-5771 | Oxford, MD |
| F/SER | Southeast Region<br>Director, Jack T. Brawner<br>Duval Bldg., 9450 Koger Blvd.<br>St. Petersburg, FL 33702 | 813-892-3142 | St. Petersburg, FL |
| F/SWR | Southwest Region<br>Director, Alan Ford<br>300 South Ferry St.<br>Terminal Island, CA 90731 | 213-548-2575 | Terminal Island, CA |
| F/SWR1 | Western Pacific Program Office<br>Administrator, Doyle E. Gates<br>2570 Dole St., P.O. Box 3830<br>Honolulu, HI 96812 | 808-946-2181 | Honolulu, HI |
| F/NWR | Northwest Region<br>Director, H.A. Larkins<br>7600 Sand Point Way, N.E., Bin C15700<br>Seattle, WA 98115 | 206-527-6150 | Seattle, WA |
| F/NWR5 | Environmental and Technical<br>Services Division,<br>Chief, Dale R. Evans<br>847 N.E. 19th Ave., 3rd floor<br>Portland, OR 97232 | 503-230-5400<br>Ext. 4301 | Portland, OR |
| F/AKR | Alaska Region<br>Director, Robert W. McVey<br>Federal Bldg., Room 453<br>709 West Ninth St., P.O. Box 1668<br>Juneau, AK 99802 | 907-586-7221 | Juneau, AK |
| | FISHERIES CENTERS AND LABORATORIES | | |
| F/NWC | Northwest and Alaska Fisheries Center<br>Director, William Aron<br>2725 Montlake Blvd., East<br>Seattle, WA 98112 | 206-442-4760 | Seattle, WA |
| F/NWCx9 | Auke Bay Laboratory<br>Director, George R. Snyder<br>P.O. Box 155<br>Auke Bay, AK 99821 | 907-789-7231 | Auke Bay, AK |
| F/NWC11 | Kodiak Facility<br>Director, Robert Wolotira<br>P.O. Box 1638<br>Kodiak, AK 99615 | 907-487-4961 | Kodiak, AK |
| F/SEC | Southeast Fisheries Center<br>Director, William W. Fox, Jr.<br>75 Virginia Beach Dr.<br>Miami, FL 33149 | 305-361-5761 | Miami, FL |
| F/SEC1 | Miami Laboratory<br>Director, William J. Richards<br>Address same as above | Same as above | |
| F/SEC2 | Mississippi Laboratories<br>Director, Andrew J. Kemmerer<br>National Space Technology Labs<br>NSTL Station, MS 39529 | 601-688-3650 | Bay St. Louis, MS |
| F/SEC22 | Pascagoula Facility<br>Chief, Wilber R. Seidel<br>3209 Frederick St., P.O. Drawer 1207<br>Pascagoula, MS 39567 | 602-762-4592 | Pascagoula, MS |

(Continued)

| Mail routing code | | Telephone number | Location |
|---|---|---|---|
| | FISHERIES CENTERS AND LABORATORIES - Continued | | |
| F/SEC5 | Panama City Laboratory<br>Director, Eugene L. Nakamura<br>3500 Delwood Beach Road<br>Panama City, FL 32407 | 904-234-6541 | Panama City, FL |
| F/SEC6 | Galveston Laboratory<br>Director, Edward F. Klima<br>4700 Avenue U<br>Galveston, TX 77550 | 713-763-1211<br>Ext. 501 | Galveston, TX |
| F/SEC8 | Charleston Laboratory<br>Director, Harry L. Seagran<br>P.O. Box 12607<br>Charleston, SC 29412 | 803-724-4770 | Charleston, SC |
| F/SEC9 | Beaufort Laboratory<br>Director, Theodore Rice<br>P.O. Box 570<br>Beaufort, NC 28516 | 919-728-4595 | Beaufort, NC |
| F/NEC | Northeast Fisheries Center<br>Director, Robert L. Edwards<br>Woods Hole, MA 02543 | 617-548-5123 | Woods Hole, MA |
| F/NEC1 | Woods Hole Laboratory<br>Director, Richard C. Hennemuth<br>Woods Hole, MA 02543 | 617-548-5123 | Woods Hole, MA |
| F/NEC2 | Narragansett Laboratory<br>Director, Kenneth Sherman<br>Route 7A, P.O. Box 522A<br>Narragansett, RI 02882 | 401-789-9326 | Narragansett, RI |
| F/NEC3 | Milford Laboratory<br>Director, James E. Hanks<br>Milford, CT 06460 | 203-878-2459 | Milford, CT |
| F/NEC4 | Sandy Hook Laboratory<br>Director, Carl J. Sindermann<br>P.O. Box 428<br>Highlands, NJ 07732 | 201-872-0200 | Highlands, NJ |
| F/NEC5 | Oxford Laboratory<br>Director, Aaron Rosenfield<br>Oxford, MD 21654 | 301-226-5193 | Oxford, MD |
| F/NEC6 | Gloucester Laboratory<br>Director, Louis J. Ronsivalli<br>Emerson Ave.<br>Gloucester, MA 01930 | 617-281-3600<br>Ext. 237 | Gloucester, MA |
| F/NEC7 | National Systematics Laboratory<br>Director, Vacant<br>10th St. and Constitution Ave., NW.<br>Washington, DC 20560 | 202-381-5795 | Washington, DC |
| F/NEC8 | Atlantic Environmental Group<br>Director, Merton C. Ingham<br>Route 7A, P.O. Box 522A<br>Narragansett, RI 02882 | 401-789-9326 | Narragansett, RI |
| F/SWC | Southwest Fisheries Center<br>Director, Izadore Barrett<br>8604 La Jolla Shores Dr.<br>P.O. Box 271<br>La Jolla, CA 92038 | 714-453-2820 | La Jolla, CA |
| F/SWC2 | Honolulu Laboratory<br>Director, Richard S. Shomura<br>2570 Dole St., P.O. Box 3830<br>Honolulu, HI 96812 | 808-946-2181 | Honolulu, HI |
| F/SWC3 | Tiburon Laboratory<br>Director, Norman Abramson<br>3150 Paradise Dr.<br>Tiburon, CA 94920 | 415-435-3149 | Tiburon, CA |
| F/SWC4 | Pacific Environmental Group<br>Chief, Gunter Seckel<br>P.O. Box 831<br>Monterey, CA 93942 | 408-373-3331 | Monterey, CA |

(Continued)

NATIONAL MARINE FISHERIES SERVICE
RESOURCE STATISTICS OFFICES

| City | Telephone number | Name and address |
|---|---|---|
| | | **NORTHEAST REGION** |
| **NEW ENGLAND** | | |
| Portland | 207-780-3322 | Robert C. Morrill, U.S. Custom House, Room 16 Portland, ME 04101 |
| Rockland | 207-594-5969 | Peter S. MarcKoon, Federal Bldg., Room 217 Rockland, ME 04841 |
| Boston | 617-542-6070 | Kathi L. Rodrigues Commonwealth Pier, Room 10 Boston, MA 02210 |
| Gloucester | 617-281-3600 Ext. 304 | Vito P. Giacalone, Jones-Hunt Bldg., Emerson Ave., Gloucester, MA 01930 |
| New Bedford | 617-999-2425 | Dennis E. Main, U.S. Custom House, 2nd and Williams Sts., New Bedford, MA 02740 |
| New Bedford | 617-994-9200 | Paul O. Swain, Address same as above |
| Provincetown | 617-487-0868 | William D. Sprague, Post Office Bldg., P.O. Box 91, Provincetown, MA 02657 |
| Woods Hole | 617-548-5123 Ext. 264 | Ronnee L. Schultz, Northeast Fisheries Center, Woods Hole, MA 02543 |
| Newport | 401-847-3115 | William J. Murphy, Post Office Bldg., Newport, RI 02840 |
| Pt. Judith | 401-783-7797 | Susan Murphy, P.O. Box 547, Pt. Judith, RI 02882 |
| **MIDDLE ATLANTIC** | | |
| Greenport | 516-477-2425 | Emerson C. Hasbrouck, Jr., 41 Front St., P.O. Box 7, Greenport, L.I., NY 11944 |
| Patchogue | 516-475-6988 | Fred C. Blossom, P.O. Box 606, Patchogue, L.I., NY 11772 |
| (1)Sandy Hook | 201-872-0200 Ext. 241 | Darryl Christensen, Sandy Hook Laboratory, P.O. Box 428 Highlands, NJ 07732 |
| Toms River | 201-349-3533 | Eugene A. LoVerde, P.O. Box 143, Toms River, NJ 08753 |
| Cape May | 609-884-2113 | Patricia A. Heying, P.O. Box 624, Cape May, NJ 08204 |
| **CHESAPEAKE** | | |
| Oxford | 301-226-5420 | William E. Brey, Oxford Laboratory, Oxford, MD 21654 |
| Greenbackville | 804-824-4725 | George E. Ward, Biological Lab., Franklin City, Greenbackville, VA 23356 |
| Hampton | 804-723-3360 | William N. Kelly, P.O. Box 447, Hampton, VA 23669 |
| | | **SOUTHEAST REGION** |
| **SOUTH ATLANTIC** | | |
| Beaufort | 919-728-4595 | Kenneth C. Harris, Pivers Island, P.O. Box 500, Beaufort, NC 28516 |
| Charleston | 803-724-4691 | John C. DeVane, Jr., 217 Ft. Johnson Rd., P.O. Box 12607, James Island, SC 29412 |
| Brunswick | 912-265-7080 | Ted M. Flowers, Federal Bldg., Room 302, 801 Gloucester St., Brunswick, GA 31520 |
| New Smyrna Beach | 904-427-6562 | Elmer C. Allen, P.O. Box 566, New Smyrna Beach, FL 32069 |
| (1)Miami | 305-361-4461 | Kimrey D. Newlin, 75 Virginia Beach Dr., Miami, FL 33149 |
| Miami | 305-361-4461 | J. Ernest Snell, Address same as above |
| Key West | 305-294-1921 | Vacant, Office & Custom House Bldg., P.O. Box 269, Key West, FL 33040 |

(1) Regional headquarters for statistics offices.

(Continued)

NATIONAL MARINE FISHERIES SERVICE
RESOURCE STATISTICS OFFICES - Continued

| City | Telephone number | Name and Address |
|---|---|---|
| GULF | | |
| Fort Myers | 813-334-4364 | James E. Naughton, P.O. Box 217, Federal Bldg., Fort Myers, FL 33902 |
| St. Petersburg | 813-893-3151 | Betty J. Guisinger, 9450 Koger Blvd., St. Petersburg, FL 33702 |
| Apalachicola | 904-653-9500 | Percy E. Thompson, Post Office Bldg., P.O. Drawer 189, Apalachicola, FL 32320 |
| Pensacola | 904-478-5258 | Margot M. Hightower, P.O. Box 585, Pensacola, FL 32593 |
| Gulf Shores | 205-968-6237 | Glenwood Montgomery, P.O. Box 744, Gulf Shores, AL 36542 |
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# PUBLICATIONS

## FISHERY MARKET NEWS REPORTS

### MARKET NEWS REPORTS

Fishery Market News reports show daily landings, and market receipts, weekly and monthly cold-storage holdings, daily exvessel prices, wholesale prices of fresh and frozen products, foreign trade data, current market developments, and other information for major fishery trading centers in the United States. The reports are issued from Boston, New York, New Orleans, Terminal Island, and Seattle.

You can order either the full service report (includes the weekly summary) or only the weekly summary. The full-service report is issued Monday, Wednesday, and Friday. The weekly summary is issued on Friday. The full service costs $45 a year. The Friday weekly summary costs $20 a year. The subscription period is 1 year beginning the first of the month following receipt of the order. For more information contact the nearest market news office. Free samples on request.

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### MESSAGE CENTERS

Recorded current market information is available around the clock at the following message centers.

Boston, MA 617-542-7878
Landings and exvessel prices at Boston, Gloucester, and New Bedford, MA.

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Gloucester, MA 617-283-1101
Boston landings and exvessel prices, New Bedford sea scallop and yellowtail flounder landings and prices, Gloucester landings.

New Bedford, MA 617-997-6565
Landings and exvessel prices at New Bedford.

Hampton, VA 804-723-0303
Landings and exvessel prices for New Bedford and Boston and landings at Fulton Market in New York announced from 10:30 a.m. to 3:00 p.m., Monday through Friday. Wholesale prices on New York Fulton Market announced 3:30 p.m. until 10:00 a.m. the following day, Monday through Thursday. Friday only, weekly summary of landings in the Hampton Roads area.

New York, NY 212-620-3577
Landings and exvessel prices at New York City, Boston, Gloucester, and New Bedford announced 10:15 a.m. to 3:00 p.m. Wholesale prices on New York Fulton Market announced 3:15 p.m. to 10:00 a.m. the following day.

New York, NY 212-620-3244
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| | BOSTON BLUE SHEET | NEW YORK GREEN SHEET | NEW ORLEANS GOLDENROD SHEET | TERMINAL ISLAND BUFF SHEET | SEATTLE PINK SHEET |
|---|---|---|---|---|---|
| Landings | New England Major Ports | New England Major Ports<br>New York City<br>Gulf Area Finfish and Shrimp | Gulf Finfish, Shrimp, and Shellfish, by Area<br>Florida Spiny Lobster | Tuna and California Anchovy, Bonito, Mackerel, and Squid<br>San Pedro Market Fish<br>Otter Trawl Landings (Weekly) | Alaska Halibut, Salmon<br>Alaska Groundfish<br>Alaska Shellfish<br>Oregon, all Fisheries<br>Washington, all Fisheries |
| Market Receipts (Truck, Air, Rail, and Vessel) | Boston Shippers' Market and Live Lobsters | New York Fulton Market | New Orleans<br>New York Fulton Market, (Crabmeat and Shrimp)<br>Shellfish | San Pedro Market Fish | – – |
| Cannery Receipts | – – | – – | Shrimp | Tuna and Bonito, California Mackerel, and Squid | – – |
| Imports | New England<br>Frozen Blocks by Species and Country<br>Selected Products by Country | New York City Customs District<br>Shrimp by Country (Monthly)<br>Shrimp by Size (Weekly on Wed.) | Gulf Area<br>Savannah, GA<br>Charleston, S.C.<br>W. Palm Beach, Miami, FL<br>Shrimp by Country<br>Shrimp by Size<br>Selected Products by Country | Tuna and Bonito by Species, Type, and Country<br>Arizonia and California<br>Mexican Shrimp<br>Shrimp by Size<br>Selected Products by Country | Washington, Oregon and Idaho |
| Exports | Selected Products Monthly, by Country | – – | Selected Products Monthly, by Country | Prices Selected Species<br>Selected Products Monthly, by Country | Pacific Northwest and Alaska by Country |
| Cold Storage Holdings | New England (Weekly)<br>National (Monthly) | – –<br>National (Monthly) | – –<br>National (Monthly) | – –<br>National (Monthly) | Northwest (Monthly)<br>National (Monthly) |
| Canned Pack | – – | – – | – – | Tuna and Bonito | Alaska Canned Salmon Pack in Season |
| Exvessel Prices | Boston and New Bedford Auction Sales<br>Live Lobsters (Mass.) | Boston and New Bedford Auction Sales | – – | Tuna and Bonito<br>California Port | Alaska Halibut, Salmon<br>Alaska Groundfish<br>Alaska Shellfish<br>Oregon, all Fisheries<br>Washington, all Fisheries |
| Wholesale Prices (Fresh and Frozen) | Boston Shellfish (Wed.)<br>Live Lobsters (Bought by Wholesaler) | New York Saltwater Finfish-Shellfish and Freshwater Finfish | New Orleans and New York Shellfish<br>Japanese Shrimp Market Information | New York Shellfish | New York Halibut and Salmon<br>Boston, Gloucester, and New Bedford Frozen Fish |
| Processors, Importers, and Brokers' Prices | Frozen Blocks, Fillets, Shellfish<br>Specialty Items (Boston, New Bedford, and Gloucester) (Weekly on Wed.) | Frozen Shrimp, Lobster Tails, Other Shellfish, and Fillets<br>Specialty Items, etc. (Weekly on Fri.) | New York Frozen Shrimp, and Lobster Tails<br>Fish Meal Oil and Solubles, (Weekly on Wed.) | Canned Tuna and Bonito<br>New England Frozen Blocks<br>Fish Meal, Oil, and Solubles | Canned Salmon, Crab, and Shrimp<br>Frozen Shrimp and Crab<br>Washington Oysters<br>Fish Meal, Oil, and Solubles |

OTHER INFORMATION, ALL OFFICES: News Releases, NMFS and Council Notices, Import/Broker Lists, Export Opportunity, Selected Export Data, Situation and Outlook Reports, Selected Air and Rail Shipments, Foreign Fishing off U.S. Coasts, and International News (IFR).

WEEKLY SUMMARY EVERY FRIDAY

In addition to the usual daily and other data, the Weekly Summary part of the Friday reports contain these special weekly features:

| | | | | | |
|---|---|---|---|---|---|
| Landings | New England Ports | Chesapeake and North Carolina Areas | Shrimp, Gulf Finfish, and Shellfish by Area; North Carolina Fish and Shellfish by District; Florida Spiny Lobster; Alaska Preliminary Westward Regional Shrimp Catch | California Tuna, Bonito, Mackerel, and Anchovy Fisheries<br>Otter Trawl Landings | Alaska Groundfish<br>Alaska Shellfish<br>Otter Trawl-Seattle |
| Market Receipts | –– Boston Lobster | New York Fulton Market<br>Selected Species | –– | –– | –– |
| Canned Pack | – – | – – | Gulf Oyster and Shrimp | – – | –– |
| Imports | – – | – – | – – | Shrimp from Mexico | Oregon and Washington |
| Exvessel Prices | Boston and New Bedford | – – | Weighted Average for Shrimp by Area and Size | – – | Alaska and Oregon |
| Wholesale Prices | Live Lobster Market | New York Fulton Market<br>Selected Species | New Orleans Fresh Fish and Shrimp | – – | – – |

# PUBLICATIONS

## PUBLICATIONS AVAILABLE FROM NATIONAL MARINE FISHERIES SERVICE, NOAA

### SCIENTIFIC PUBLICATIONS ONLY

Information on scientific publications by NMFS may be obtained from the Scientific Publications Office (F/NWR1), 7600 Sand Point Way N.E., Bin C-15700, Seattle, WA 98115. Telephone: 206-527-6107.

### OTHER PUBLICATIONS (1)

A partial list of National Marine Fisheries Service (NMFS) publications is shown on this page. Information on other publications produced by NMFS may be obtained from:

National Oceanic and Atmospheric Administration
Information Management Division
Publications Services Branch (OA/D812)
Rockville, MD 20852

### CURRENT FISHERY STATISTICS (CFS) SERIES

The reports listed below are in the CFS (Current Fishery Statistics) series. They are statistical bulletins on marine recreational fishing and commercial fishing, and on the manufacture and commerce of fishery products. To obtain a subscription to these publications, check the designated space () and return to:

NOAA, National Marine Fisheries Service
Resource Statistics Division (F/SR1)
Washington, D.C. 20235
202-634-7366

Marine recreational fishing publications are released irregularly. If you wish a copy of the following publications, check the designated space () and return to the office shown above.

( ) Participation in Marine Recreational Fishing, Northeastern United States, 1973-74 C.F.S. No. 6236

( ) Participation in Marine Recreational Fishing, Southeastern United States, 1974 C.F.S. No. 7333

( ) Marine Recreational Fishery Statistics Survey, Atlantic and Gulf Coasts, 1979, C.F.S. No. 8063

The following are preliminary bulletins on commercial landings. They are issued monthly and annually.

( ) GC-6 Shrimp Landings
( ) GCS Gulf Coast Shrimp Data

The bulletins listed below published through 1976, show annual data on U.S. commercial landings, fishermen and operating unit data, and the production of processed products, by States. Statistics published in these sectional summary bulletins are published later in Fishery Statistics of the United States (Statistical Digest) together with text and more detailed information on landings and operating units.

( ) SR
New England Fisheries
Middle Atlantic Fisheries
Chesapeake Fisheries
South Atlantic Fisheries
Gulf Fisheries
Hawaii Fisheries
Great Lakes Fisheries
Mississippi River Fisheries

The bulletins shown below cover freezings and holdings, the production of various processed products, and the U.S. foreign trade in fishery products. The annual data shown in the publications are later published in Fishery Statistics of the United States. To order Fishery Statistics of the United States from the Government Printing Office (GPO) or the National Technical Information Service (NTIS), see the two pages that follow.

The following are available through 1981 as monthly and annual bulletins:

( ) Frozen Fishery Products
( ) Fish Meal and Oil

The following, are available annually through 1980:

( ) MF-1 Canned Fishery Products
( ) MF-2 Industrial Fishery Products
( ) MF-3 Production of Fish Fillets and Steaks
( ) MF-4 Processed Fishery Products
( ) MF-5 Fish Sticks, Fish Portions, and Breaded Shrimp (Quarterly and Annually)
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## PUBLICATIONS AVAILABLE FROM NATIONAL MARINE FISHERIES SERVICE, NOAA

Shellfish Market Review

Food Fish Market Review

Fish Meal and Oil Market Review

Each of these reports is published on an irregular basis. The reports provide description and analysis of those economic factors affecting markets for fishery products. The narrative includes a review of market trends, both historical and recent, and an outlook for the near future. Statistical tables are presented for landings, production, imports, inventories, supplies, apparent consumption, and prices (exvessel, wholesale, and retail).

Operation Price Watch

This report is based on an informal NMFS survey of retail prices of fish and other items. The report is published monthly. It includes prices of surveyed items in each of 10 cities and three price indexes (fish, meat, and poultry). Because prices of some items, notably fresh fish, are not regularly available, they are not included in the 10-city averages, nor in the indexes. The three indexes differ from those published by the Bureau of Labor Statistics (BLS), which conducts separate formal surveys of retail prices for the Consumer Price Index (CPI).

The reports listed below are studies of the market for underutilized fish in the United States and 16 foreign countries.

Study Report of Export and Domestic Market Opportunities for Underutilized Fish and Shellfish.

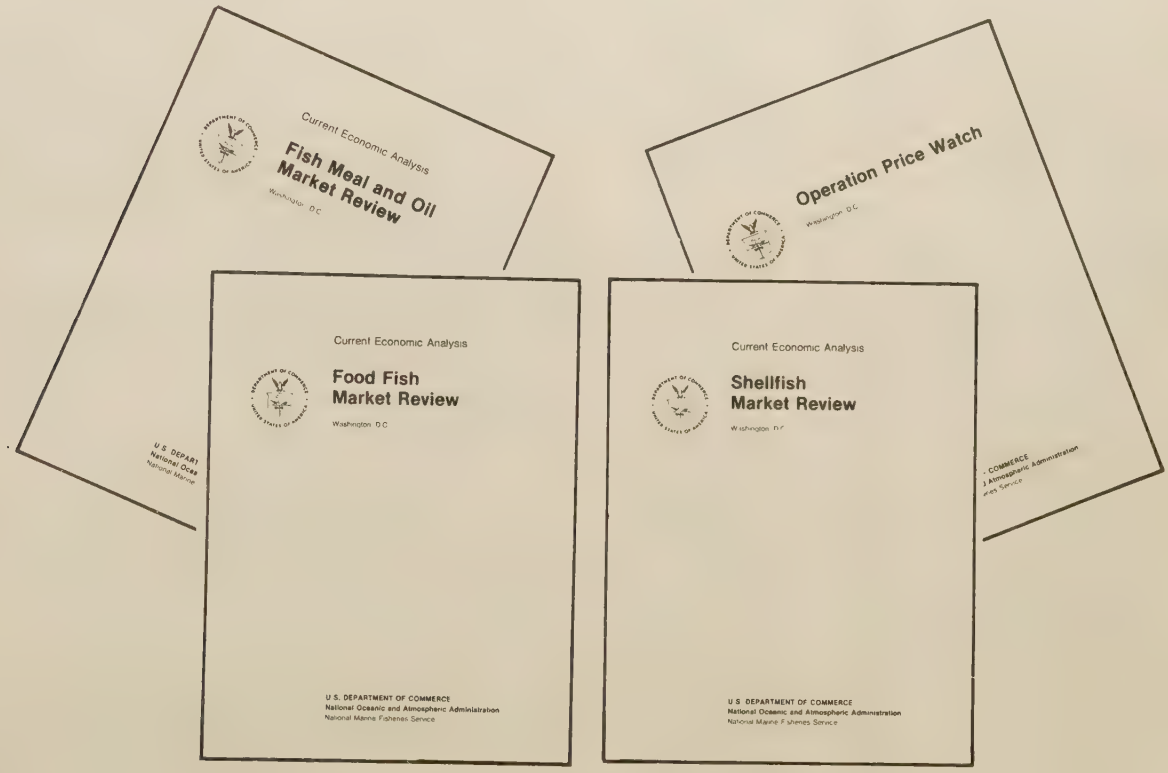
Export Market Summaries for France, Belgium/Luxembourg Switzerland, W. Germany.

Export Market Summaries for Italy, Spain, Portugal, Greece.

Export Market Summaries for Denmark, Sweden, United Kingdom, Netherlands.

Export Market Summaries for Japan, Korea, Taiwan, Nigeria.

Prospectus for Development of the United States Fisheries.




FURTHER INFORMATION MAY BE OBTAINED FROM:

Fisheries Development Division (F/UD1)
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PUBLICATIONS AVAILABLE FROM NATIONAL TECHNICAL INFORMATION SERVICE (NTIS), U.S. DEPARTMENT OF COMMERCE

Report of the National Marine Fisheries Service for the Calendar Year 1978. (No accession number assigned.)

RECREATIONAL MARINE FISHING

1970 Salt-Water Angling Survey, PB-265416.

Determination of the Number of Commercial and Non-Commercial Recreational Boats in the United States, Their Use, and Selected Characteristics, COM-74-11186.

Participation in Marine Recreational Fishing:
Northeastern United States, 1973-74, COM-75-10655.
Southeastern United States, 1974, PB-273160

Marine Recreational Fishery Statistics Survey
Atlantic & Gulf Coasts, 1979, PB 81-165557

COMMERCIAL FISHERIES

Fisheries of the United States is a preliminary report with historical comparisons on the Nation's fishing, fish processing, and foreign trade in fishery products.

| Year | Accession number | Year | Accession number |
|---|---|---|---|
| 1966 | COM-75-10662 | 1974 | COM-75-10862 |
| 1967 | COM-75-10663 | 1975 | PB-25-3966 |
| 1968 | COM-75-10664 | 1976 | PB-268662 |
| 1969 | COM-75-10665 | 1977 | PB-282741 |
| 1970 | COM-71-50081 | 1978 | PB-297083 |
| 1971 | COM-75-10666 | 1979 | PB-80-201593 |
| 1972 | COM-73-50644 | 1980 | PB-81-241648 |
| 1973 | COM-74-50546 | | |

Fishery Statistics of the United States (Statistical Digest) is a final report on the Nation's commercial fisheries showing more detail than Fisheries of the United States.

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| 1939 | COM-75-11265 | 1958 | COM-75-11061 |
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| 1950 | COM-75-11056 | 1969 | COM-75-10887 |
| 1951 | COM-75-11053 | 1970 | COM-75-10643 |
| 1952 | COM-75-11054 | 1971 | COM-74-51227 |
| 1953 | COM-75-11055 | 1972 | COM-75-11430 |
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| 1955 | COM-75-11058 | 1974 | PB-277796 |
| 1956 | COM-75-11059 | 1975 | PB-300625 |
| 1957 | COM-75-11060 | 1976 | PB-81-163438 |

STATE LANDINGS

Maine, 1946-76, PB-271296/1977-79, PB-81-128258.
Massachusetts, 1943-76, PB-275866/1977-79, PB-81-143182.
Rhode Island, 1954-77, PB-287627/1978-79, PB-81-157158.
New York, 1954-76, PB-275449/1977-79, PB-81-134546.
New Jersey, 1952-76, PB-275696/1977-79 PB-81-159048.
Maryland, 1960-76, PB-300636/1977-79 PB-81-159030
Virginia, 1960-76, PB-300637/1977-79 PB-82-151960.
North Carolina, 1955-76, PB-288928/1977-79 PB-82-151978.
South Carolina, 1957-76, PB-289405/1977-79 PB-81-163198.
Georgia, 1956-77, PB-289814/1977-78 PB-81-157166.
Florida, 1950-76, PB-292068.
Alabama 1950-77, PB-80-121262/1978 PB-82-168071.
Mississippi, 1951-77, PB-80-121270/1978 PB-82-169079.
Louisiana, 1957-77, PB-300583/1978 PB-82-168063.
Texas, 1949-77, PB-300603/1978-79 PB-82-169004.
Shrimp, 1956-76, PB-80-124696/1977-78 PB-82-156183.
Gulf Coast Shrimp Data, 1958-76, PB-80-126899/1977 PB-82-170390.

Processors of Fishery Products in U.S. (excludes Alaska) 1980 (shows firm name, address, and major products). (No accession number assigned.)
Processors and Wholesalers of Alaska Fishery Products, 1978, PB-299246.

Wholesale Dealers of Fishery Products in U.S. (excludes Alaska) 1980, (shows firm name, address and major products) PB-82-185190.

Directory of Aquaculture in the Southeast, 1976, PB-272-1512.

Revenues, Costs, and Returns from Vessel Operation in Major U.S. Fisheries, PB-265275.

Seafood Plant Sanitation, PB-271161.

BASIC ECONOMIC INDICATORS

American and Spiny Lobster, 1947-73, COM-74-11587.
Atlantic and Pacific Groundfish, 1932-72, COM-74-11638.
Blue Crab, 1947-72, COM-74-11585.
Clams, 1947-74, COM-75-11089.
Halibut, 1929-72, COM-74-11583.
King and Dungeness Crabs, 1947-72, COM-74-11586.
Menhaden, 1946-72, COM-74-11581.
Oysters, 1947-73, COM-75-10384.
Salmon, 1947-72, COM-74-11710.
Scallops, 1930-72, COM-74-11582.
Shrimp, 1947-72, COM-74-11709.
Tuna, 1947-72, COM-74-11584.

Baseline Economic Forecast of the U.S. Fishing Industry to 1985, COM-75-11156.

Economic Impacts of the U.S. Commercial Fishing Industry, COM-75-11354.

A Survey of Fish Purchases by Socio-Economic Characteristics - Annual Report, COM-71-00647.

Future Investment in U.S. Fish Harvesting and Processing: A Discussion of Possible Alternative Requirements Through 1985, PB-249591.

National Marine Fisheries Service: Seafood Consumption, 1973-1974, (a magnetic tape) PB-294-725

National Marine Fisheries Service: Species/Mercury Data (a magnetic tape) PB-283265.

The Maryland Blue Crab and Oyster Processing Industries: The Effects of Government Regulations, PB-82-159054

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| 003-020-00131-9 | "A Comprehensive Review of the Commercial Oyster Industries in the United States". . .$2.50 |
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The office of Sea Grant is a major program element of the National Oceanic and Atmospheric Administration. The National Sea Grant College Program is funded jointly by the Federal Government and colleges or universities. Sea Grant's Marine Advisory Service offers a broad range of information to recreational and commercial fishermen, fish processors, and others concerning the Nation's fisheries. The following program leaders can provide information on Sea Grant activities:

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## FISHERIES DEVELOPMENT SERVICES

The National Marine Fisheries Service (NMFS) provides many services with emphasis on developing our Nation's fisheries, particularly for underutilized species. Information is available describing foreign and domestic markets for a variety of species of fish and shellfish. Other services include assistance to organize fishery cooperatives, information on foreign tariffs, trade barriers, fishing vessel safety and insurance, and to identify needless regulations which erode industry stability and limit its growth. Market reports covering foodfish, shellfish, and industrial fishery products are issued periodically. Consumer services include educational and training information material for consumers, trade and retail food industries. Information on seafood purchasing, preparation, and handling is supplied through the industry representatives and trade associations. Financial services are available to give fishermen access to private sources of long term financing for fishing vessel construction, reconstruction, and reconditioning (see back cover). A voluntary Federal inspection service is provided for fishery products to ensure that wholesome, safe, and acceptable seafood products are provided for the consumer (see inside back cover).

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# SERVICES

## CONSUMER AFFAIRS

The Consumer Services Branch is in the Seafood Research, Inspection, and Consumer Services Division of the National Marine Fisheries Service.

The Consumer Services Branch provides educational and informational materials and services as follows:

### SERVICES

- cooperative educational and marketing activities with industry
- workshops/presentations on seafood issues
- complaint handling
- distribution of educational and informational materials
- provide information about --
    - the voluntary seafood inspection program
    - grade standards and Federal specifications for seafood
    - seafood labeling approval

### MATERIALS

- how to --
    - select, handle, and prepare seafood
    - can, smoke, and freeze seafood
    - determine quality of fresh, frozen, and canned seafood
- seafood recipes
- nutritional data on seafoods
- audio-visual materials (teacher's unit, seafood charts, brochures)
- news releases on fisheries/consumer information
- best-buy information

### LOCATION

The Consumer Services Branch is in the Washington, D.C., area. For further information please contact the following:

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# GLOSSARY

ANADROMOUS SPECIES. These are species of fish that mature in the ocean, and then ascend streams to spawn in freshwater. In the MFCMA, these species include, but are not limited to, Atlantic and Pacific salmons, steelhead trout, and striped bass. See 42 FR 60682, Nov. 28, 1977.

BOAT, OTHER. Commercial fishing craft not powered by a motor, e.g., rowboat or sailboat, having a capacity of less than 5 net tons. See motorboat.

BREADED FISH PRODUCTS. Sticks and portions or other forms of fish or shellfish coated with a non-leavened mixture containing cereal products, flavorings, and other ingredients. Breaded products are sold raw or partially cooked.

BATTER-COATED FISH PRODUCTS. Sticks and portions or other forms of fish or shellfish coated with a batter containing a leavening agent and mixture of cereal products, flavoring, and other ingredients, and partially cooked in hot oil a short time to expand and set the batter.

BREADED SHRIMP. Peeled shrimp coated with breading. The product may be identified as fantail (butterfly) and round, with or without tail fins and last shell segment; also known as portions, sticks, steaks, etc., when prepared from a composite unit of two or more shrimp pieces, whole shrimp, or a combination of both without fins or shells.

BUTTERFLY FILLET. Two skin-on fillets of a fish joined together by the belly skin. See fillets.

CANNED FISHERY PRODUCTS. Fish, shellfish, or other aquatic animals packed in cans, jars, or other containers, which are hermetically sealed and heat-sterilized. Canned fishery products may include milk, vegetables, or other products. Most, but not all, canned fishery products can be stored at room temperature for an indefinite time without spoiling.

COMMERCIAL FISHERMAN. An individual who derives income from catching and selling living resources taken from inland or marine waters.

CONSUMPTION OF EDIBLE FISHERY PRODUCTS. Estimated amount of commercially landed fish, shellfish, and other aquatic animals consumed by the civilian population of the United States. Estimates are on an edible-weight basis and have been adjusted for beginning and ending inventories of edible fishery products. Consumption includes U.S. production of fishery products from both domestically caught and imported fish, shellfish, and other edible aquatic plants and animals; and excludes exports and purchases by the U.S. Armed Forces.

CONTINENTAL SHELF FISHERY RESOURCES. These are living organisms of any sedentary species that are at the harvestable stage either (a) immobile on or under the seabed or (b) unable to move except in constant physical contact with the seabed or subsoil of the continental shelf. The MFMCA now lists them as certain abalones, surf clam and ocean quahog, queen conch, Atlantic deep-sea red crab, dungeness crab, stone crab, king crabs, snow (tanner) crabs, American lobster, certain corals, and sponges.

CURED FISHERY PRODUCTS. Products preserved by drying, pickling, salting, and smoking. Do not include canned, frozen, irradiated, or pasteurized products. Dried products are cured by sun or air-drying; pickled or salted products are those products preserved by applying salt, or by pickling (immersing in brine or in a vinegar or other preservative solution); smoked products are cured with smoke or a combination of smoking and drying or salting.

EUROPEAN ECONOMIC COMMUNITY (EEC). Belgium and Luxembourg, Denmark, Federal Republic of Germany, France, Ireland, Italy, Netherlands, and United Kingdom.

EXVESSEL PRICE. Price received at the dock for fish, shellfish, and other aquatic plants and animals.

FISH BLOCKS. Regular fish blocks are frozen blocks or slabs of fillets or pieces of fillets cut or sliced from fish. Minced fish blocks are frozen blocks or slabs of minced flesh produced by a meat and bone separating machine.

FISH FILLETS. The sides of fish that are either skinned or have the skin on, cut lengthwise from the backbone. Most types of fillets are boneless or virtually boneless; some may be labeled as "boneless fillets."

FISH MEAL. A high-protein animal feed supplement made by cooking, pressing, drying, and grinding fish or shellfish.

FISH OIL. An oil extracted from body (body oil) or liver (liver oil) of fish and marine mammals; mostly a byproduct of fish meal production.

FISH PORTION. A piece of fish flesh that is generally of uniform size with thickness of 3/8 of an inch or more and differs from a fish stick in being wider or of a different shape. A fish portion is generally cut from a fish block.

FISH SOLUBLES. A water-soluble protein byproduct of fish meal production. Fish solubles are generally condensed to 50 percent solids and marketed as "condensed fish solubles."

FISH STEAK. A cross-section slice cut from a large dressed fish. A steak is usually about 3/4 of an inch thick.

FISH STICK. An elongated piece of breaded fish flesh weighing not less than 3/4 of an ounce and not more than 1-1/2 ounces with the largest dimension at least three times that of the next larger dimension. A fish stick is generally cut from a fish block.

FISHING CRAFT, COMMERCIAL. Boats and vessels engaged in capturing fish, shellfish, and other aquatic plants and animals for sale.

FISHERY MANAGEMENT PLAN (FMP). A plan developed by a Regional Fishery Management Council to manage a fishery resource pursuant to the MFCMA.

FULL-TIME COMMERCIAL FISHERMAN. An individual who receives more than 50 percent of their annual income from commercial fishing activities, including port activity, such as vessel repair and rigging.

GROSS REGISTERED TONNAGE (GRT). The gross registered tonnage of a vessel is the internal cubic capacity of all space in and on the vessel that is permanently enclosed, with the exception of certain permissible exemptions. GRT is expressed in tons of 100 cubic feet.

GROUNDFISH. Broadly, fish that are caught on or near the sea floor. The term includes a wide variety of bottomfishes, rockfishes, and flatfishes. However, NMFS sometimes uses the term in a narrower sense. In import statistics shown in "Fisheries of the United States," the term applies to the following species: cod, cusk, haddock, hake, pollock, and Atlantic ocean perch.

INDEXES OF EXVESSEL PRICES. Indexes of exvessel prices in this report are calculated by averaging prices for the various species of fish. The weight assigned to each species represents its importance in the total exvessel value of all species in 1966-70. Detailed data are aggregated to obtain indexes for groups of species. Each index measures price changes from 1967, the reference period, which is designed as 100. An increase of 85 percent from the reference period in the index, for example, is shown as 185.0.

INDUSTRIAL FISHERY PRODUCTS. Items processed from fish, shellfish, or other aquatic plants and animals that are not consumed directly by humans. These items contain products from seaweeds, fish meal, fish oils, fish solubles, pearl essence, shark and other aquatic animal skins, and shells.

INTERNATIONAL CONVENTION FOR THE NORTHWEST ATLANTIC FISHERIES (ICNAF). This convention, which entered into force on July 3, 1950, was for the investigation, protection, and conservation of the fishery resources of the Northwest Atlantic Ocean. In 1975, there were 18 member nations. The United States withdrew from ICNAF on December 31, 1976, because continued adherence to the convention was deemed incompatible with the extension of U.S. fishery management jurisdictions to 200 miles under the Magnuson Fishery Conservation and Management Act of 1976. See Northwest Atlantic Fisheries Organization (NAFO).

JOINT VENTURE. An operation authorized under the MFCMA in which a permitted foreign vessel receives fish in the U.S. FCZ from a U.S. vessel. The fish received from the U.S. vessel are part of the U.S. harvest.

LANDINGS, COMMERCIAL. Quantities of fish, shellfish, and other aquatic plants and animals brought ashore and sold. Landings of fish may be in terms of round (live) weight or dressed weight. Landings of crustaceans are generally on a live-weight basis except for shrimp which may be on a heads-on or heads-off basis. Mollusks are generally landed with the shell on, but for some species only the meats are landed, such as sea scallops. Data for all mollusks are published on a meat-weight basis.

MAGNUSON FISHERY CONSERVATION AND MANAGEMENT ACT, Public Law 94-265, as amended, (MFCMA). The Act provides a national program for the conservation and management of fisheries to allow for an optimum yield (OY) on a continuing basis and to realize the full potential of the Nation's fishery resources. The MFCMA established the U.S. fishery conservation zone (FCZ) and a means to control foreign and certain domestic fisheries through PMPs and FMPs. Within the U.S. FCZ, the United States has exclusive management authority over all fish (meaning finfish, mollusks, crustaceans, and all other forms of marine animal and plant life other than marine mammals, birds, and highly migratory species of tuna). The Act provides further exclusive management authority beyond the U.S. FCZ for all continental shelf fishery resources and all anadromous species throughout the migratory range of each such species, except during the time they are found within any foreign nation's territorial sea or fishery conservation zone (or the equivalent), to the extent that such a sea or zone is recognized by the United States.

MARINE RECREATIONAL CATCH. Quantities of finfish, shellfish, and other living aquatic organisms caught, but not necessarily brought ashore, by marine recreational fishermen.

MARINE RECREATIONAL FISHING. Fishing for pleasure, amusement, relaxation, or home consumption. If part or all of the catch is sold, the monetary returns constitute an insignificant part of the person's income.

MARINE RECREATIONAL FISHERMEN. Those people who fish in marine waters primarily for recreational purposes. Their catch is primarily for home consumption, although occasionally a part or all of their catch may be sold and enter commercial channels.

# GLOSSARY

MAXIMUM SUSTAINABLE YIELD (MSY). MSY from a fishery is the largest annual catch or yield in terms of weight of fish caught by both commercial and recreational fishermen that can be taken continuously from a stock under existing environmental conditions. A determination of MSY, which should be an estimate based upon the best scientific information available, is a biological measure necessary in the development of optimum yield.

NORTHWEST ATLANTIC FISHERIES ORGANIZATION (NAFO). This convention, which entered into force January 1, 1979, replaces ICNAF. NAFO provides a forum for continued multilateral scientific research and investigation of fishery resources of the Northwest Atlantic. NAFO will manage fishery resources that occur beyond the limits of coastal nations fishery jurisdiction in the northwest Atlantic, and will ensure consistency between NAFO management measures in this area and those adopted by the coastal nations within the limits of their fishery jurisdiction. U. S. adherence to the NAFO Convention is anticipated in 1980.

MOTORBOAT. A motor-driven commercial fishing craft having a capacity of less than 5 net tons. See "boat, other."

OPTIMUM YIELD (OY). In the MFCMA, OY with respect to the yield from a fishery, is the amount of fish that (1) will provide the greatest overall benefit to the United States, with particular reference to food production and recreational opportunities; and (2) is prescribed as such on the basis of maximum sustainable yield from such fishery, as modified by any relevant ecological, economic, or social factors.

PACKAGED FISH. A term used in NMFS publications prior to 1972 to designate fresh or frozen raw fish fillets and steaks.

PART-TIME COMMERCIAL FISHERMAN. An individual who receives less than 50 percent of their annual income from commercial fishing activities.

PER CAPITA CONSUMPTION. Consumption of edible fishery products in the United States divided by the total civilian population. In calculating annual per capita consumption, estimates of the civilian resident population of the United States on July 1 of each year are used. These estimates are taken from current population reports, series P-25, published by the U.S. Bureau of the Census.

PER CAPITA USE. The use of all fishery products, both edible and nonedible, in the United States divided by the total population of the United States.

PRELIMINARY FISHERY MANAGEMENT PLAN (PMP). The Secretary of Commerce prepares a PMP whenever a foreign nation with whom the United States has made a Governing International Fishery Agreement (GIFA) submits an application to fish in a fishery, for which there is no fishery management plan (FMP). A PMP is replaced by an FMP as soon as the latter is implemented. A PMP applies only to foreign fishing.

RETAIL PRICE. The price of fish and shellfish sold to the final consumer by food stores and other retail outlets.

ROUND (LIVE) WEIGHT. The weight of fish, shellfish, or other aquatic plants and animals as taken from the water; the complete or full weight as caught. The tables on world catch found in this publication include, in the case of mollusks, the weight of both the shells and the meats, whereas the tables on U.S. landings include only the weight of the meats.

TOTAL ALLOWABLE LEVEL OF FOREIGN FISHING (TALFF). The TALFF, if any, with respect to any fishery subject to the exclusive fishery management authority of the United States, shall be that portion of the optimum yield of such fishery which will not be harvested by vessels of the United States, as determined by provisions of the MFCMA.

U.S. FISHERY CONSERVATION ZONE (FCZ). The MFCMA defines this zone as contiguous to the territorial sea of the United States and extending seaward 200 nautical miles measured from the baseline from which the territorial sea is measured.

U.S.-FLAG VESSEL LANDINGS. Includes landings by all U.S. fishing vessels regardless of where landed as opposed to landings at ports in the 50 States. These include landings at foreign ports, U.S. territories, and foreign vessels in the U.S. FCZ under joint venture agreements. U.S. law prohibits vessels constructed or registered in foreign countries to land fish catches at U.S. ports.

U.S. TERRITORIAL SEA. A zone extending 3 nautical miles from shore for all States except Texas and the Gulf Coast of Florida where the seaward boundary is 3 marine leagues (9 nautical miles).

USE OF FISHERY PRODUCTS. Estimated disappearance of the total supply of fishery products both edible and nonedible on a round-weight basis without considering beginning or ending stocks, exports, military purchases, or shipments to U.S. territories.

VESSEL. A commercial fishing craft having a capacity of 5 net tons or more. These craft are either enrolled or documented by the U.S. Coast Guard and have an official number assigned by that agency.

WHOLESALE FISH AND SHELLFISH PRICES. Prices in this report generally are those received at principal fishery markets by primary wholesalers (processors, importers, and brokers) in customary quantities, free on board (f.o.b.) warehouse.

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# Federal Inspection Marks For Fishery Products

FISHERY PRODUCTS ARE VOLUNTARILY INSPECTED. Beef and poultry, as well as many other perishable food items, are federally inspected at various stages of processing to ensure buyers that the product is safe, wholesome, and acceptable. Fishery products have no similar mandatory Federal inspection program; however, the U.S. Department of Commerce (USDC) provides a voluntary inspection program for fishery products. Seafood processors, packers, brokers, and users who are interested in having USDC inspect their products may subscribe voluntarily to the program. Users of the service pay for USDC inspection which evaluates their raw materials, ensures the hygienic preparation of products, and certifies the final quality and condition of the product. The USDC inspector functions as an objective observer in evaluating processing techiques and product quality and condition. Products packed in plants under USDC inspection can carry marks for easy consumer identification.

FEDERAL INSPECTION MARKS. Federal inspection marks are official marks approved by the Secretary of Commerce and authorized for use on brand labels of fishery products. When displayed on product labels, these marks signify that inspectors licensed by the Department of Commerce inspected, graded, and certified the products as having met all the requirements of inspection regulations, and have been produced in accordance with official U.S. grade standards or approved specifications.

WHAT DO THE INSPECTION MARKS MEAN? The distinctive inspection marks are symbols that signify two distinct but related functions in guiding the consumer to safe, wholesome products produced in a sanitary environment and packed in accordance with uniform quality standards under the supervision of the U.S. Department of Commerce's voluntary inspection service. The functions symbolized by each mark follow:

"U.S. GRADE" MARK. The "U.S. Grade" mark signifies that:

1. The product is clean, safe, and wholesome.
2. The product is of a specified quality, identified by the appropriate U.S. Grade designation, as determined by a federally - licensed inspector in accordance with established requirements in U.S. Grade Standards.
3. The product was produced in an acceptable establishment with proper equipment and in an appropriate processing environment as required by food control authorities.
4. The product was processed under supervision by federally - licensed food inspectors and packed in accordance with specific Good Manufacturing Practice Requirements.

5. The product is truthfully and accurately labeled as to common or usual name, optional ingredients, and quantity.

"PACKED UNDER FEDERAL INSPECTION" MARK. "Packed Under Federal Inspection" may be displayed as an official mark or as an official statement on the product label. The mark or statement signifies that the properly labeled product is clean, safe, and wholesome and has been produced in an acceptable establishment with appropriate equipment under the supervision of federally - licensed inspectors. The product has not been graded as to a specific quality level; rather, it is an acceptable commercial quality as determined by Federal inspectors in accordance with approved standards or specifications.

FOR FURTHER INFORMATION

Northeast Inspection Office
P.O. Box 1188
Emerson Ave.
Gloucester, MA 01930
(617) 281-3600

Southeast Inspection Office
Duval Building
9450 Koger Blvd.
St. Petersburg, FL 33702
(813) 893-3155

National Seafood Quality
and Inspection Laboratory
3209 Frederic St.
P.O. Drawer 1207
Pascagoula, MS 39567
(601) 762-4591

Western Inspection Office
4847 Eastern Ave.
Building No. 7
Bell, CA 90201
(213)265-0534

Inspection Services Branch
3300 Whitehaven St., N.W.
Washington, DC 20235
(202) 634-7458

U.S. DEPARTMENT OF COMMERCE
National Oceanic and Atmospheric Administration
NATIONAL MARINE FISHERIES SERVICE (F/SR1)
Washington, D.C. 20235

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# Financing For Fishing Vessels

Two National Marine Fisheries Service programs are available for financing the construction and refurbishing of commercial fishing vessels and commercial passenger-carrying fishing vessels.

The Fishing Vessel Obligation Guarantee Program is available for financing up to 87½ percent of the cost of constructing, reconstructing, or reconditioning fishing vessels of 5 net tons or over. Maturities of 15 to 25 years are available.

The long-term financing available under this program allows fishing vessel owners to stretch the debt service of their vessel construction or refurbishing costs over a period of time equal to the economically useful life of their vessel. Down payments are low and interest costs are reasonable.

The Fishing Vessel Capital Construction Fund Program allows fishing vessel owners to defer payment of Federal tax on any portion of income earned from the operation of fishing vessels of at least 2 net tons when that income is reserved for payment toward the cost of vessel construction or reconstruction.

This provides an interest-free loan from the U.S. Government equal to the Federal taxes which otherwise would have been paid on vessel income.

Deferred taxes are eventually repaid to the U.S. Government through a reduction in the depreciation allowed on vessels constructed or reconstructed with tax deferred funds. The "interest-free loan" character of the tax deferral, thus, continues through the depreciable life of the vessel.

This tax-deferral program compensates for vessel owner's general lack of access to the equity capital market by reducing the amount which must be initially borrowed from conventional sources to finance vessel construction or reconstruction.

Several other programs are available. One compensates for fishing gear which has been damaged or destroyed under certain circumstances; another indemnifies against seizure by foreign governments; and one compensates for gear damage which has been caused by outer continential shelf energy activities.

## For Further Information

Contact one of the following Financial Services offices of the National Marine Fisheries Service, NOAA, U.S. Department of Commerce:

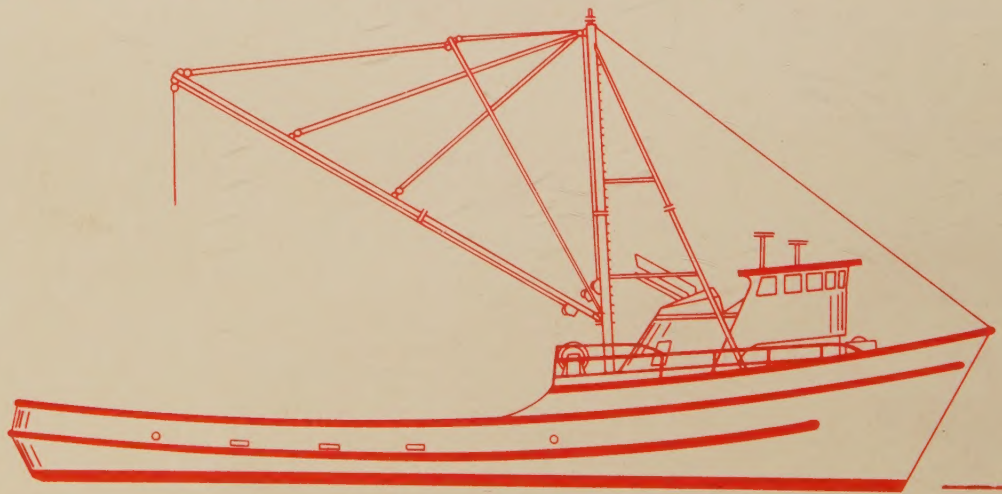
Post Office Bldg., P.O. Box 1109
Gloucester, MA 01930
(617) 281-3600

1700 Westlake Ave., North
Seattle, WA 98109
(206) 442-5532

P.O. Box 3830
Honolulu, HI 96812
(808) 946-2181

9450 Koger Blvd.-Duval Bldg.
St. Petersburg, FL 33702
(813) 893-3148

300 South Ferry St.
Terminal Island, CA 90731
(213) 548-2478



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